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U. S. Department of Agriculture.



Stumpp & Walter Co.

NEW YORK CITY

VEGETABLE
SEED TRIALS
HORTICULTURE

JAN 31 1933

Free Delivery in the United States

All Grass Seeds, Flower Seeds
Vegetable Seeds, Bulbs, and Books.

We Deliver Free to Any Point
in the United States, at prices
listed in this Catalogue.

All Fertilizers, Garden Supplies
and Implements, as well as Insec-
ticides and Fungicides exceeding
\$2 in value.

We Deliver Free within 100 Miles
of our New York Headquarters, at
prices listed in this Catalogue.

Free deliveries are made, at our option, by truck or by mail, express
or freight to your nearest post office, express office, or freight station.

PURCHASER PAYS TRANSPORTATION on certain items. We ship the following merchandise "Charges Collect;" freight or express charges are payable to the agent on arrival: Potatoes, Farm Seeds, Field Corn, Clovers, Cereals, Stolons, Plants, Roots, and Nursery Stock. Also Fertilizers, Garden Supplies, and Implements for points beyond 100 miles; and Insecticides and Fertilizers to the value of \$2 or less.

Suggestions to Customers

SEND MAIL TO NEW YORK. We ask that mail orders and correspondence be sent to 132-138 Church St., New York City.

PLEASE USE THE ORDER SHEETS. Also keep a copy of your list, and, above all, do not omit your name and address. Numerous orders reach us every season without these important particulars.

ORDER EARLY. It is difficult for us to serve you as promptly as we wish when we receive a very large number of rush orders just prior to planting-time. Will you not help us by giving us your order **early**? We will appreciate the favor indeed, and you will gain too: by having the goods on hand you will be able to take advantage of early opportunities for planting.

ERRORS. Ordering early helps to prevent errors. Our order-filling system calls for complete rechecking by efficient supervisors; customers may be assured of full weight and correct count. We believe we have reduced errors to the minimum, yet should mistakes occur, our patrons may rely upon us to rectify them promptly.

COMPLAINTS. These will always be adjusted to the purchaser's satisfaction, but we ask that we be notified within 5 days of receipt of goods. We cannot consider complaints made after this nor can we accept responsibility for crop failures.

ORDERS FOR PLANTS. Kindly use the special order sheet for plants to be found at the end of this book. We ship trees, shrubs, roses, etc., at the correct date for planting, which may be some time after your order reaches us. When the plants arrive, unpack them at once and water them. They should be "heeled in," that is, be planted temporarily, or should have some soil placed around their roots if you are not ready to use them at once.

IF ANYTHING IS MISSING when you unpack your goods, do not think we have necessarily made an error. Look first for a memorandum, either enclosed with your order or sent by mail, telling you that some items of the order are to follow later; these may be goods which are not ready, or not suitable for using right away. Onion sets, trees, shrubs, roses, and plants generally are not shipped until it is the proper time to plant them. We sometimes enclose small packages in larger bags of seed or fertilizer; please examine these before reporting shortage.

PRICES. Our prices are net, with no discounts, and they are subject to change without notice.

REMITTANCES. These should be made by check, bank draft, post office order, or express money order. Do not send currency unless by registered letter.

C. O. D. We are always glad to supply seeds, bulbs, fertilizers, or insecticides to be paid for on delivery. We do not send shrubs, roots, roses, hedge plants, or other perishable goods C. O. D.

CHARGE ACCOUNTS. We will be pleased to open charge accounts to responsible parties on receipt of the usual trade references; in this case our invoices are payable within 30 days net—no discount.

FREE PACKING. For domestic shipments of seeds, bulbs, fertilizers and plants we make no packing charge, except when cotton and burlap bags are used for grass and field seed; these we bill at cost and **allow in full** when returned, prepaid, with sender's name and address marked on bundle.

EXPORT DEPARTMENT. Shipments to distant points form an important feature of our business, and we are well equipped to take care of these orders through our Export Department, which is organized to serve our clients in foreign lands. Purchasers may rely upon proper packing, prompt delivery to steamers, and correct preparation of the necessary documents. Transportation and special packing will be charged extra at cost.

EMPLOYMENT REGISTER—Superintendents, Gardeners, Greenkeepers, Groundsmen, Poultrymen. We always have on our books the names of men seeking positions, most of whom are known personally to our representatives, and we will be glad to put them in touch with employers seeking help of this kind.

NON-WARRANTY. We, Stumpp & Walter Co., give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and will not be responsible for the crop. As bearing on the above, the following remarks, taken from a recent Bulletin of the U. S. Department of Agriculture, are interesting: "Without attempting to discuss the arguments for the seedsman's disclaimer pro and con, the fact remains that reputable seedsmen stand back of their seeds and do not knowingly and wilfully sell seeds that are unfit."

Stumpp & Walter Co.

132-138 Church St. (at Warren)
NEW YORK CITY

New York Telephones: BA rclay 7-1110 7-1111 7-1112 7-1113 7-1114 7-1115

This New Year is Our 36th

It is with deep regret that we record the death, during the past year, of our Mr. George G. Stumpp. For many years Mr. Stumpp served as President of our Company, and with Mr. Julian H. Walter, founded the business 35 years ago. His untimely demise came as a great shock to his many friends in the horticultural profession, where his valuable knowledge, his enthusiasm, and high ideals were most respected. He leaves an organization of co-workers trained to "carry on."

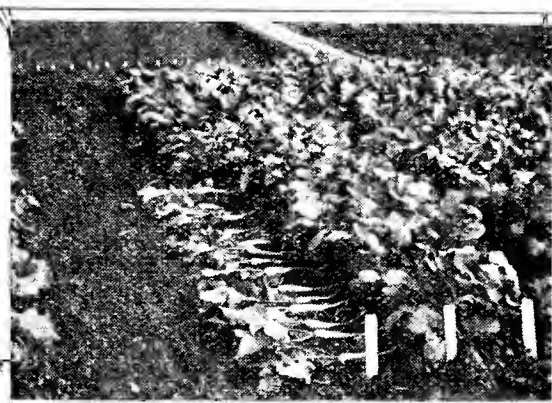
WE ARE ACTUAL PRODUCERS. Every year the control of quality in our products becomes more complete, as each season more and more of them are produced by us, or are grown for us to our specifications and under contract, and we are able more and more to breed high quality into our merchandise. Every one of the gladiolus corms, narcissus bulbs, grass stolons, perennial and alpine plants that we offer in this Catalogue are grown on our own farms, while many of our seeds are raised by us or collected under our direct supervision. The remainder of our merchandise is produced by growers of proved reliability, whom we have discovered in our many years of business.

Fertilizers described in this Catalogue, with the initials S. & W. Co. or the word "Sawco" preceding their description, are our own manufacture.



It Is Thrifty to Use Quality Merchandise

The first requisite for success in the garden and on the lawn and farm is **High Quality** in the materials with which you work. We offer this **High Quality** merchandise: Grass Seeds re-cleaned until they contain no seeds of noxious weeds; Vegetable Seeds with a pedigree assuring more palatable food and larger yields; Flower Seeds, Bulbs, and Roots with larger and more beautiful blossoms bred into them.



SEED-TESTING. To be constantly testing seeds is a matter of routine with us; we regard it as the most important of our business processes. Only by constant testing can we insure that when our seeds reach the customer they are of the highest germination—the first requirement of high quality. Our laboratory assistants will be glad to show you our methods when you visit our New York offices.



PROVING VARIETIES. All summer we raise thousands of flowers and vegetables in the open at our Farmingdale, L. I., experimental gardens. We aim to grow to maturity samples of all our seeds so that we may know that our high standards are maintained, another all-important requirement of quality. Customers interested in this feature of our business are invited to visit our gardens, by appointment.



Stolons of Creeping Bent Grass are grown on the Stumpp & Walter Co.'s grounds. The method of producing lawns with these stolons is described on page 5.

The above illustration is a view of our Mile-Front Daffodil Farm at Islip, Long Island. We have been growing Daffodils on Long Island for the past eight years, and this year produced approximately one million bulbs in 55 Standard as well as New and Rare Varieties.



Growing bulbs or "corms" of the modern Gladiolus is one of the most important crops on the Stumpp & Walter Co.'s grounds at Farmingdale, L. I.

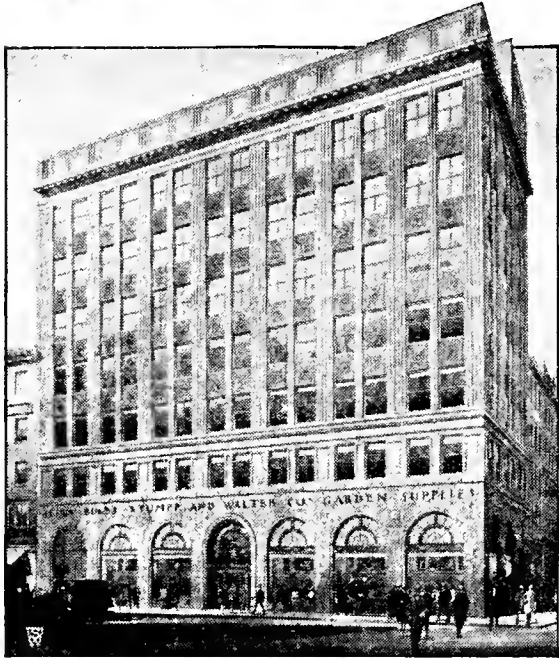
JULIAN H. WALTER
President
GEORGE O. STUMPP
Vice-Pres. and Treasurer
WILLIAM A. SPERLING
Vice-President

Stumpp & Walter Co.

132-138 Church St. (Cor. of Warren St.)
NEW YORK CITY

WILLARD L. ISAACS
Secretary
THOMAS F. KEARNEY
Assistant Treasurer
ALEX. E. SEHLMAYER
Assistant Secretary

Our Service Organization



NEW HEADQUARTERS BUILDING
132-138 Church Street, at Warren Street, New York
Phones: BA rclay 7-1110 to 7-1115

PROPER STORAGE. Stumpp & Walter Co. products are kept under ideal conditions. Our warehouses in New York were built as recently as 1931 and are equipped with modern devices for the control of temperature and humidity, so that we are able to preserve unimpaired the life that is in our seeds and bulbs.

SKILLED OPERATORS. The conditioning of our merchandise, the grading and selecting, weighing into packages, counting and packing is carried out by careful co-workers, most of whom have been associated with us for many years.

NEW VARIETIES OF PROVED MERIT. We aim to keep abreast of progress in the matter of improved varieties, but we take care to offer only new flowers and vegetables which we know to be worthy. The thought expressed in a catalogue issued by us thirty years ago guides us as surely now as it did then. In language that carries us back to the nineties, we read "We do not attempt to exploit that which we do not know the decided merits of."

Our clients may be assured that the hundreds of novelties and improved strains which we offer in this Catalogue have been tried by us and proved to have real merit.



Our Bureau of Horticultural Information will aid you with your garden difficulties.

ing the maximum results with our merchandise. Samples of soil may be sent for examination and report; weeds and insect pests may be sent for identification and advice as to their eradication. Our biologists may be consulted, without charge, by mail or personally; they will gladly help with your problems.

Stumpp & Walter Co.

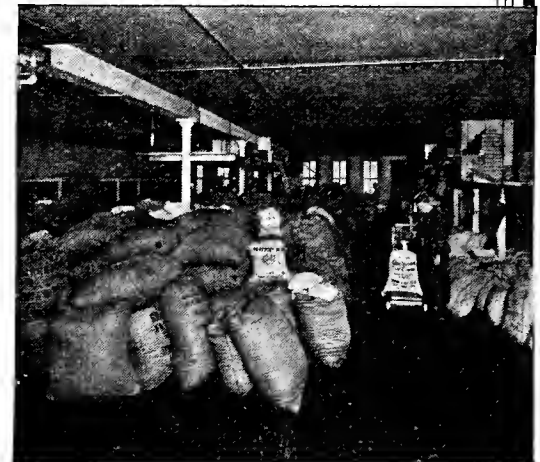
132-138 Church St. (Cor. of Warren St.)
NEW YORK CITY

NEW HEADQUARTERS. At 132-138 Church Street, three short blocks north of our old location, we have erected a new building. Nine floors, each of 5,000 square feet in area, give us ideal working space; double elevator service and shipping facilities enable us to handle orders quickly, and we are close to all transportation termini.

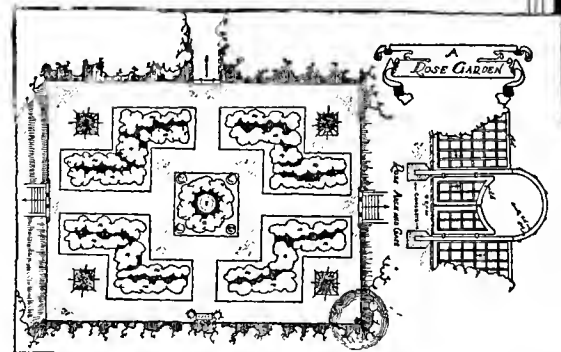
Our sales floor is one of the largest and most attractive seed-stores in the country, designed for the utmost efficiency, in order that those who purchase in a hurry, with trains to catch, or with appointments to keep, may be served at express speed.



Acres of beets and carrots, bounteous fields of beans, gardens full of succulent vegetables and beautiful flowers are visualized when one walks through the aisles of the Garden Seed Department at 132-138 Church Street, New York.



Green pastures, mammoth hay crops, swaying fields of golden grain, smooth, soft lawns—the seeds of all are here, in great variety, but unvarying in their High Quality, in the Field Seed Department at 132-138 Church Street, in the heart of New York City.



Your property may be made more beautiful with the assistance of our Bureau of Landscape Design.

ADVISORY SERVICE. In our New York offices we operate a Bureau of Horticultural Information to aid our customers in obtaining the maximum results with our merchandise. Samples of soil may be sent for examination and report; weeds and insect pests may be sent for identification and advice as to their eradication. Our biologists may be consulted, without charge, by mail or personally; they will gladly help with your problems.

A LANDSCAPE BUREAU. We maintain a Bureau of Landscape Design. We commend it to the favorable attention of those who contemplate making planting changes in their gardens or developing new properties. Surveys will be made and plans prepared for a nominal fee. Inquiries may be addressed to our New York headquarters.

Our Merchandising Policy

BUYING MADE EASY. It is easy to purchase Stumpp & Walter Co. products; your order may be mailed or telephoned to any of our addresses and it will be attended to immediately. If you reside within 100 miles of New York, a representative qualified to discuss your requirements with you will gladly call, at your request.

PERSONAL SHOPPING. If you live in Greater New York, and prefer to do your shopping personally, you may find it convenient to visit our headquarters or one of our branches. Our new store and offices in New York are conveniently located downtown, one block from Broadway and City Hall; convenient to subways, elevated railroads, ferries, and tunnels to New Jersey. Our branches are located in suburban New York.



HEMPSTEAD BRANCH (Long Island)
236-238 Fulton Avenue, at Franklin Street
Phone: Hempstead 792

Our plant sales office at Farmingdale, L. I., is ready to help you. Our people there are qualified to advise on the planting of perennial borders and shrubberies, and the design of rock-gardens.



STAMFORD BRANCH (Conn.)
674-676 Main Street, at Grove Street
Phone: Stamford 4-0125

OUR BRANCHES: We operate branch establishments and maintain complete stocks in the following suburban communities:

Newark, N. J. Hempstead, L. I.
Englewood, N.J. Stamford, Conn.
White Plains, N.Y.



ENGLEWOOD BRANCH (N. J.)
3-5-7 Grand Avenue, at Palisade Avenue
Phone: Englewood 3-5596



NEWARK BRANCH (N. J.)
29-31 Central Avenue, at Halsey Street
Phone: Mulberry 4-5595

OTHER CATALOGUES ISSUED

Golf Turf Supplement deals with seeds and implements for the production and maintenance of golf courses, polo fields, and large lawns. Illustrated. *February 1.*

Hardy Perennial Flowers and plants for the rock-garden. Profusely illustrated. *March 1.*

Midsummer and Advance Bulb Catalogue. Merchandise for summer planting, together with bulbs at favorable rates, for special import orders. *May 1.*

Bulb Catalogue, describing the newest in Tulips, Hyacinths, Narcissi. Offering American-grown

stock, also bulbs from Holland, France, Bermuda, and Japan. *September 1.*

These are mailed regularly to customers, and prospective customers are invited to write for them.

MAY WE SERVE YOU IN 1933? The arrival of this Catalogue marks the commencement of a new gardening year. We present it for your consideration and send it with grateful thanks to our friends for their support in the past, and a confident request for their continued patronage.

We have every confidence in the high quality of our merchandise, the helpfulness of our service and the convenience of our business policy. We believe that 1933 will be a year of intensive gardening, and we wish our customers the success to which the use of High Quality Merchandise should entitle them.



Sales Office for Plants, located on our 75-acre farm at Farmingdale, L. I., where the perennial, alpine, and other plants we offer are produced.

Stumpp & Walter Co.

132-138 Church St. (Cor. of Warren St.)
NEW YORK CITY

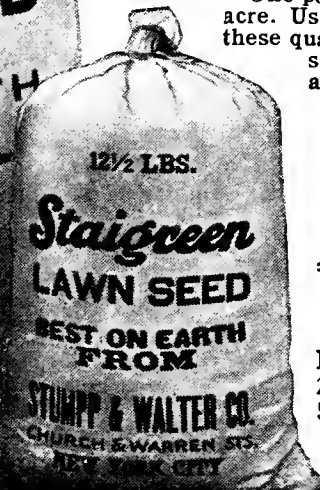
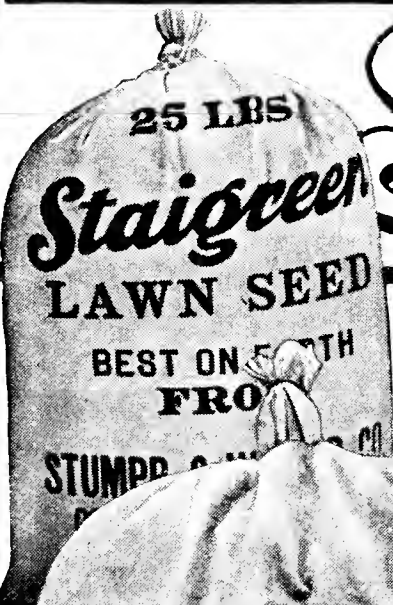
DON'T EXPERIMENT—WE'VE DONE THAT FOR YOU



PRICE LOWEST IN TEN YEARS
...Same Reliable Formula...

Staigreen LAWN SEED BEST ON EARTH

DELIVERED PREPAID ANYWHERE IN U.S.A.



Staigreen

Is a modern lawn seed mixture, the result of years of experimenting and practical sowing in all types of soil. It now contains a larger percentage of the desirable Bent Grass than before.

Staigreen

Is composed of grass varieties which will make a permanent sod of deep-rooted grasses forming a luxuriant turf, enduring from early spring until covered by winter snow.

Staigreen

Weighs over 25 lbs. to the bushel, which is an exceptional weight for lawn seed, and heavy seed means pure seed of highest quality free from weeds and chaff.

We recommend STAIGREEN for all lawns, whether new or old, except in the extreme South. It does best in medium rich soils, but if the soil is poor it should be enriched with Emerald Grass Fertilizer.

One pound will make a new lawn 20 by 20 ft., or 100 lbs. per acre. Use half quantity for renovating old lawns. Use double these quantities for new lawns and renovating when quick results are desired. Sow STAIGREEN during spring or autumn.

PAMPHLET "HOW TO BUILD
A PERMANENT LAWN" FREE IN
EVERY PACKAGE

Don't experiment—We've done that for you

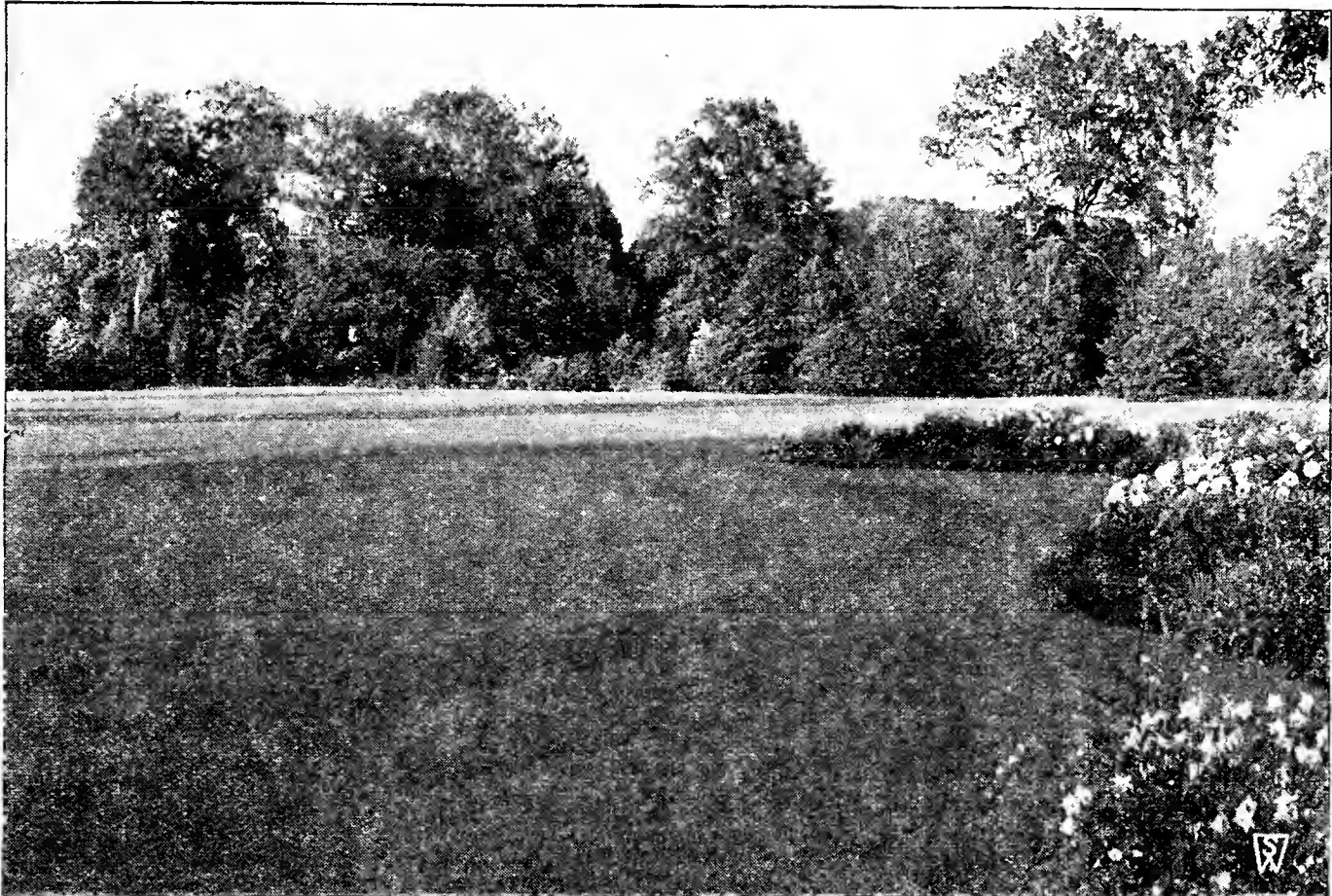
Now Offered at Lower Prices

Lb. (Sifter-Top Container).	\$0.60	12 1/2 lbs.	\$6.25
2 1/2 lbs.	1.40	25 lbs.	12.00
5 lbs.	2.75	100 lbs.	45.00

Delivered prepaid anywhere in U.S.A.



Bent Turf is like a Carpet



All Bent LAWN SEED

For Extra Fine Closely Mown Turf

A mixture of the wonderful Bent Grasses, the dwarfest sorts in cultivation, creeping in habit, and capable of producing a dense mat of the finest silky turf. To these is added a proportion of high-quality Red-Top. In rich soil this formula will produce a turf finer in texture than a lawn of the ordinary type, and the creeping character of these varieties causes them to almost "felt" together and produce the soft, luxurious feel of an expensive rug. The turf is a deep, rich green color.

All Bent Lawn Seed will produce a sod equal in texture to the putting-greens of the more exclusive golf clubs, but for best results the soil must be inherently good and should have additional rotted manure and Emerald Grass Fertilizer worked into it. Every spring and autumn, and several times during the growing season, Emerald Grass Fertilizer at the rate of 25 pounds to 1,000 square feet should be applied to the turf, first mixing the Fertilizer with six times its bulk of fine sifted soil.

Sow the seed at the rate of 1 pound per 250 square feet or 175 pounds per acre.
Lb. \$1.10, 2½ lbs. \$2.65, 5 lbs. \$5, 12½ lbs. \$12, 25 lbs. \$22.50, 100 lbs. \$85.
 Charges prepaid.

CREEPING BENT STOLONS

FOR VERY UNIFORM TURF

Not a seed mixture! Stolons are stems of the living Creeping Bent Grass, which are cut into small pieces, broadcast on prepared land, and covered with a thin coating of soil. Estimate the size in square feet of your new lawn, and then purchase one-eighth the area in Creeping Bent Stolons. For instance, if the lawn is to be 20 by 40 feet (800 square feet), buy 100 square feet of the Stolons.

NOTE. We recommend Stolons only when special effort in planting and after-care can be given; we advise the use of seed for ordinary lawn making. Stolons of Creeping Bent are not satisfactory in the shade.

EASY Grass Seed SOWER

Distributes Grass Seeds correctly even in the hands of the most inexperienced.

THE EASY SOWER

With one filling will sow 50 to 100 square feet

Empty, 35 cts. postpaid

Filled with Staigreen, 50 cts. postpaid



STOLONS OF CREEPING BENT GRASS

5 square feet \$2, 25 square feet \$8, 100 square feet \$25, 1,000 square feet \$225. Purchaser pays transportation

Both Metropolitan and Washington Strains are available; we ship Metropolitan unless otherwise instructed.

Purchaser pays transportation from our Nurseries. Five square feet will plant a lawn 40 square feet in area; 100 square feet will plant a lawn 800 square feet in area. Shipping weight of one square foot, about one pound.

Turf in the Shade



The most beautiful of lawns is the one o'ershadowed by trees

Shady Place Formula Lawn Seed. Consists of shade-tolerant grass varieties, properly proportioned, together with sorts which do well in sunny situations. So the formula may be used for dense shade as well as for those portions of the lawn which reach out into full light. Use as a minimum allowance, 1 pound to 400 square feet, or 100 pounds per acre; sow half these quantities when renovating a lawn, *and use double these quantities for quick results.* Usually it is easy to obtain turf under trees when our Shady Place Formula is used, but in very stubborn cases it may be necessary to renovate the lawn every season for several years, proceeding thus: Add lime every autumn at the rate of 50 pounds per 1,000 square feet; fork the land lightly in the spring, and apply Sawconure, 50 pounds per 1,000 square feet; rake smooth and sow Shady Place Formula Lawn Seed; rake again to cover the seed and either use a roller or flatten with the back of a spade; sow some further seeds to renovate the lawn at the end of summer. **Lb. 65 cts., 2½ lbs. \$1.55, 5 lbs. \$3., 10 lbs. \$5.75, 20 lbs. \$11, 100 lbs. \$50.** Charges prepaid.

Turf by the Sea

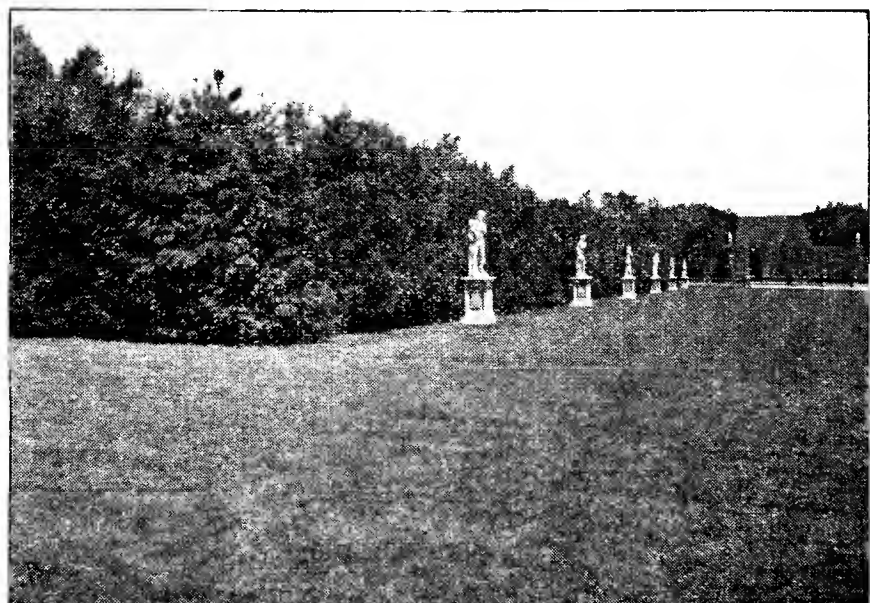
Seashore Lawn Formula Grass Seed. The varieties are selected for their deep-rooting qualities and resistance to salt-spray and high winds. The soil in the neighborhood of the sea is frequently very poor, and a very good preparation is to apply Sawconure at the rate of 100 pounds to each 1,000 square feet; rake after applying this manure and then sow seed. One quart should be sown on an area 15 by 15 feet, or five bushels to the acre. Use one-half of these quantities for renovating; *double quantities for quick results.* **Qt. 45 cts., 4 qts. \$1.50, 8 qts. \$2.75, ½ bus. \$4.50, bus. (22 lbs.) \$8.50, 5 bus. \$40.** Charges prepaid.



For Areas Subject to the Influence of Salt Spray

Turf in the Parks

"High-Grade" Lawn Seed. We advise the use of "High-Grade" Lawn Seed on large areas or on lawns where low cost of materials is more important than extreme fineness of turf. Composed of fine, re-cleaned grasses, with fine White Dutch Clover, care being taken to include varieties of high purity and vitality. They are carefully proportioned so that they will succeed one another and give the lawn that much-desired green, velvety appearance through the summer. One quart will sow 15 by 20 feet; five bushels to the acre; use one-half these quantities for renovating old lawns; *double quantities for quick results.* **Qt. 40c., 4 qts. \$1.25, 8 qts. \$2.25, ½ bus. \$4, bus. (22 lbs.) \$7.50, 5 bus. \$35.**



For Parks, College Grounds, and Other Large Areas



For Terraces, Hillsides and Embankments

Turf on Slopes

Terrace Sod Formula Grass Seed. A mixture of grasses that will produce strong, spreading roots, will withstand drought and sun, and will thrive on shallow soils. If the slope is gentle, add 1 inch of topsoil, broadcast Emerald Grass Fertilizer at the rate of 50 pounds to 1,000 square feet. Rake, and sow Terrace Sod Formula, 10 pounds to 1,000 square feet. Rake lightly to cover the seed and firm with a roller or back of a spade. If slope is severe, proceed as above, except to sow along with the grass seeds some ordinary seed oats—1 pound of seeds and 1 quart of oats to each 100 square feet. Mow the oats as soon as they are long enough for a mower to cut them, and keep them cut. If the slope is very steep, mix 1 pound of Terrace Sod Formula with two pailfuls of earth. Make notches with a hoe about 9 inches apart, and fill the notches with the mixture. We now offer Terrace Sod Formula Grass Seed at lower prices. **Lb. 65 cts., 2½ lbs. \$1.55, 5 lbs. \$3, 10 lbs. \$5.75, 20 lbs. \$11, 100 lbs. \$50.** Charges prepaid.



For Lawns in the Southern States

Turf in the South

Southern Lawn Formula Grass Seed. From central Virginia south, the ordinary northern grasses will not thrive permanently, and good results are not likely to follow the use of the customary mixtures. As a result of an intimate knowledge of southern conditions we offer a special formula of grass seeds which we find is highly satisfactory. We advise that two seedings be made, one in spring and one in fall, allowing at each, 1 quart to every 15 by 15 feet or 5 bushels to the acre. **Qt. 40 cts., 4 qts. \$1.25, 8 qts. \$2.25, ½ bus. \$4, bus. (20 lbs.) \$7.50, 5 bus. \$35.** Charges prepaid.

Bermuda Grass Seed. A superior strain for fine lawns and pastures. **Lb. 45 cts., 10 lbs. \$3.50, 100 lbs. \$27.50.**

Carpet Grass Seed. Recommended specially for lawns or pastures in moist soil. **Lb. 45 cts., 10 lbs. \$3.50, 100 lbs. \$27.50.**

New Jersey Lawn Formulas

The New Jersey Experiment Station, New Brunswick, N. J., has published a series of Lawn Seed Formulas which they advise as being most suited to the climate and soil conditions of that state. We offer these mixtures, accurately made up of new-crop seed of the recommended varieties. We use ingredients higher in purity and germination than required by the Experiment Station's specifications.

Formula No. 1 (with clover). Standard for lawns in New Jersey on fair to good soils. **Lb. 60 cts., 2½ lbs. \$1.40, 5 lbs. \$2.75, 12½ lbs. \$6.50, 25 lbs. \$12.50, 100 lbs. \$47.50.**

Formula No. 1a (without clover). Same basis as above, but without clover. **Lb. 60 cts., 2½ lbs. \$1.40, 5 lbs. \$2.75, 12½ lbs. \$6.50, 25 lbs. \$12.50, 100 lbs. \$47.50.**

Formula No. 2. For finest quality turf, containing a liberal percentage of Colonial Bent. **Lb. \$1, 2½ lbs. \$2.35, 5 lbs. \$4.50, 12½ lbs. \$11, 25 lbs. \$21, 100 lbs. \$80.**

Formula No. 3. For shaded areas. **Lb. 60 cts., 2½ lbs. \$1.45, 5 lbs. \$2.85, 12½ lbs. \$6.75, 25 lbs. \$13, 100 lbs. \$50.**

Formula No. 4. For poor, clayey, shaley, or sandy soils of New Jersey. **Lb. 60 cts., 2½ lbs. \$1.45, 5 lbs. \$2.85, 12½ lbs. \$6.75, 25 lbs. \$13, 100 lbs. \$50.**

We prepay transportation on Grass Seeds offered in this Catalogue to any part of the United States

SPECIAL GRASS FOODS

These are our own manufacture, and we use only the most appropriate ingredients in the best quality. Shipment is made in sealed bags.

SAWCO EMERALD LAWN AND PUTTING-GREEN FERTILIZER. For fine lawns, tennis-courts, bowling-greens and golf putting-greens. Contains all the food-elements required by grass in a combination of organic and inorganic materials, which makes it lasting in its effect, yet is quick to show results. **5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$4.50, 500 lbs. \$20, 1,000 lbs. \$35, ton \$62.50.**

SAWCO FAIRGREEN FERTILIZER. For golf fairways, polo-fields, football-fields and the college campus. A high-grade product at a price justifying its use over wide areas. **100 lbs. \$4.50, 500 lbs. \$17.50, 1,000 lbs. \$30, ton \$50. Minimum bag, 100 lbs.**

SAWCO RACETRACK, AIRPORT, and FARM GRASS FERTILIZER. For largest turf areas. **100 lbs. \$3.50, 500 lbs. \$13.50, 1,000 lbs. \$25, ton \$40. Minimum bag, 100 lbs.**

A Bulky All-Organic Material Ideal Substitute for Rotted Manure

For soils which are (a) sandy or (b) sticky. In addition to supplying plant-food, the high humic content has a beneficial effect mechanically, helping to render the land more favorable to the permanent growth of grass.

SAWCONURE. For lawns and playing fields. A mixture of peat-moss and air-dried animal excreta. Contains no weed seeds, but the bacteria which make manure so valuable are uninjured. **100 lbs. \$4.50, 500 lbs. \$17.50, 1,000 lbs. \$30, ton \$50, 5 tons or over at \$45 per ton, 15 tons or over at \$37.50 per ton. Minimum bag, 100 lbs.**

All the above are pure plant-food materials. In our mixing we use no inert substance by way of "filler" or "makeweight"

How These Grass Foods Are Applied

When building a new lawn, spread the material you select at the rate of one ton or more per acre, or a minimum of 50 pounds per 1,000 square feet. Sawconure may be used up to twice this allowance, and both Sawconure and either the Emerald, Fairgreen, or Racetrack formulas may be used together with advantage. Disc, tooth-harrow, or rake in by hand, so that the plant-food is mixed with the soil to a depth of 3 inches. Then sow grass seeds or plant stolons. Existing grass may be top-dressed every spring and autumn, using 800 pounds per acre, or 20 pounds per 1,000 square feet of Emerald Lawn, Fairgreen, or Racetrack fertilizer. An even distribution is essential, otherwise the grass may be scorched, and for the same reason the turf must be dry when the application is made. Rub off the grass onto the soil with the back of a rake, or by dragging a bundle of tree branches over the area.

We prepay transportation on Fertilizer to your nearest freight station, within 100 miles of New York



The Eighteenth Green, new course, Salisbury Golf Links, Salisbury Plains, L. I. (Lannin Realty Co., Inc., owners). Here are now five complete 18-hole golf courses in play. Grass seeds, fertilizers, and implements supplied by the Stump & Walter Co.

TURF FOR GOLF

One of the secrets of fine turf is to use grass seeds of the highest purity and strongest vitality; seeds which are new, botanically true, and of maximum specific gravity; seeds which have been freed from weed seeds as far as modern machinery and care can remove them. Seeds of this high quality make up the following formulas:

Putting-Green Formulas

Use 1 pound to each 100 square feet; one-quarter to one-half this quantity for renovating.

Special Putting-Green Bent Formula

Recommended for well-prepared, rich soils. This is a blend of imported and domestic grass seeds of the *finest* quality—all of the highest purity and strongest germination. We include in the formula an increased proportion of the Bents, however, on account of their wonderful fineness and their suitability for golf. **Lb. \$1.10, 5 lbs. \$5, 25 lbs. \$20, 100 lbs. \$75.**

Standard Putting-Green Formula

Recommended for light, dry soils. This is a blend consisting of imported and domestic grass seeds of *fine* quality—all of high purity and strong germination. The mixture includes the Bent grasses and Red Fescue, and is a well-balanced one; its use for more than twenty years has proved its reliability. Splendid for light, dry soils. **Lb. 90 cts., 5 lbs. \$4.25, 25 lbs. \$16.50, 100 lbs. \$60.**

PLAY GOLF AT HOME!

A miniature putting-green, clock course, or a chipping and putting course can easily be constructed on some part of your garden. Where space is limited, it may be merely a portion of the lawn to which you will give special care and on which holes may be sunk for putting.

With more space, shrubbery, hardy perennials, rock-gardens, or flower-beds may be worked into the scheme. Each little putting or chipping hole may have individuality, and we have a miniature flower course. Given enough distance, one or two holes may be planned to get in some mashie shots.

On an estate where some acres are available, the skilful placing of three or more greens, with tees arranged so that a variety of shots is possible, brings a private course to the residence. Nine holes of golf may be obtained with only three greens well designed and carefully placed.

House-owners with adjoining lawns may top-dress and fertilize them, roll them frequently, and cut them closely, and, by sinking holes and installing small flags, the neighbors possess a community putting club.

Emerald Grass Fertilizer and our Putting-Green and Fairgreen Formula Grass Seeds used on soil of good quality will produce the proper kind of golfing turf. Top-dressing with compost or fine soil from time to time, and more frequent and closer mowing than the average lawn receives, will keep the turf in playing condition.

We issue a special catalogue of Seeds, Fertilizers and Implements for Golf Courses. It will be sent free on application.

Fairgreen Formulas

Use 200 pounds to each acre; one-quarter to one-half this quantity for renovating.

Fairgreen Formula, Superfine Quality

A prescription of hardy yet fine grass varieties which will produce wonderful turf from tee to green.

Recommended for well-prepared, rich soils. This mixture contains Bent seed as well as Cheving's New Zealand Fescue, Kentucky Blue Grass, and Superfine Red-Top, all being mixed in their correct proportions. The weight of a measured bushel is over 25 pounds. **Lb. 65c., 5 lbs. \$3, 25 lbs. \$12.50, 100 lbs. \$40.**

Fairgreen Formula, Fine Quality

Recommended for light, dry soils. Weight of a measured bushel of this formula is over 20 pounds. This mixture contains only re-cleaned grasses of strong vitality, and will produce an even, tough and lasting turf. **Lb. 50 cts., 5 lbs. \$2.25, 25 lbs. \$9, 100 lbs. \$25.**

SENOLED. A Compound of Lead Arsenate for Grub-proofing Lawns and Gardens

Lead Arsenate, when applied to the land, will destroy the Japanese Beetle, June Beetle, Wireworm, Cutworm, Maggots, and Earthworms. Its use discourages crab-grass and other weeds in lawns, reduces *Poa annua*, deepens the color of grass, and improves turf generally.

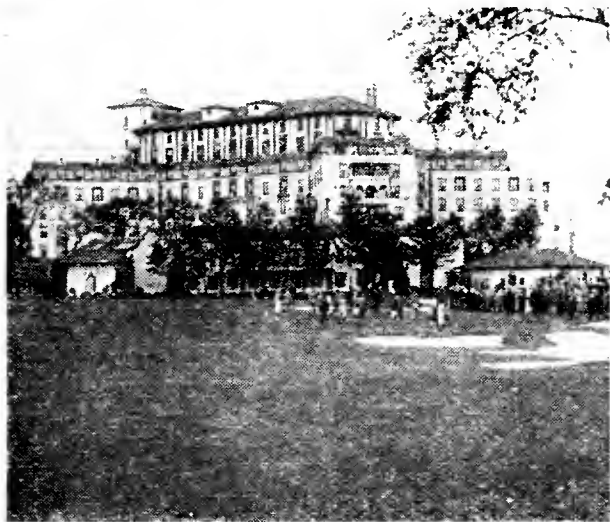
With a view to insuring an even distribution of Lead Arsenate, we blend it with a proportion of an approved fertilizing material which is rich in plant-foods; the properties of this substance tend to hold the Lead Arsenate in the soil and delay its

loss through leaching. This combination we term **Senoled**, and it is therefore designed not only to destroy pests and weeds over a long period, but also to feed the growing plants.

Senoled may be broadcast on old lawns for it will not burn grass. When making a new lawn, rake it in twenty-four hours before sowing seed; in the garden, apply it after digging. The amount employed is 25 pounds per 1,000 square feet, or one-half ton per acre. It can be used at any time of the year with good effect, and up to 2,000 pounds per acre can be used with safety.

PRICE OF SENOLED: 5 lbs. \$1.50, 25 lbs. \$3, 100 lbs. \$8, 500 lbs. \$35, 1,000 lbs. \$65, ton \$125

Grass Seeds for Golf



At the Westchester Country Club, N. Y.
Stumpp & Walter Seeds used

SPECIAL DIVOT FORMULA

Always Keep a Bag in Stock

A blend consisting of (a) seeds of fine, strong wearing, *permanent* grasses suitable for fairways and tees, with (b) seeds of the quickest growing plants we know that are of a *temporary* nature. The temporary plants grow immediately, and in a day or two you cannot locate the divot; in the course of a few weeks, with cutting, the temporary plants disappear, leaving the permanent grasses, now established, in full possession of the soil.



At the Oakmont Golf Club, Pa. Stumpp & Walter Seeds used

How to Use Divot Formula. Take two pailfuls of screened soil; with one of them mix thoroughly 2½ pounds of Divot Formula. Fill the divot with unmixed soil, and scatter a ¼-inch layer of the mixed soil and Divot Formula over it; press smooth with the foot. For ideal results tees should be inspected and treated in this way after each day's play, and fairways once a week.

Lb. 65 cts., 5 lbs. \$3.10, 25 lbs. \$13, 100 lbs. \$45

SPECIAL FORMULA FOR TEES. Our formula includes only those varieties which will stand rough usage and recuperate quickly after excessive wear. Lb. 60 cts., 5 lbs. \$2.75, 25 lbs. \$11, 100 lbs. \$35.

SPECIAL "ROUGH" FORMULA. Consists of the taller-growing hardy perennial grasses in combination with gorse, yarrow, and other plants suitable for the purpose and least likely to give serious trouble as weeds, should their seed be carried by the wind and other agencies on to your greens or fairways. Lb. 50 cts., 5 lbs. \$2.25, 25 lbs. \$9, 100 lbs. \$25.

MIXED FESCUES FOR BUNKERS. A mixture of Red, Hard, Dwarf, Fine-leaved, Various-leaved, and Tall Fescues. Excellent for mounds, bunkers, and exposed sandy situations in the "rough." Lb. 65 cts., 5 lbs. \$3, 25 lbs. \$12.50, 100 lbs. \$40.

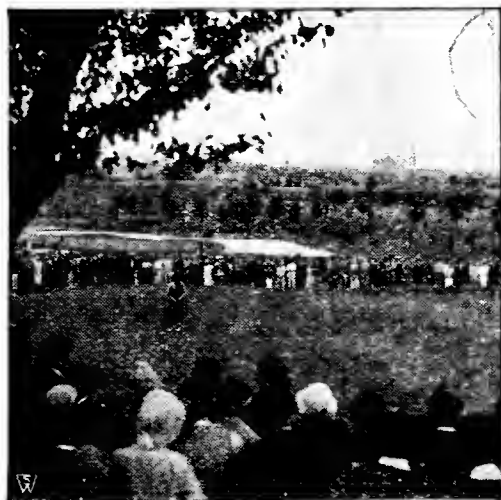


On the old nine, looking toward the new eighteen, at the Greenbrier, White Sulphur Springs, W. Va. Stumpp & Walter Seeds used

WHITE CLOVER (*Trifolium repens*). Do not use for putting-greens, but it is occasionally recommended for fairways and tees. We offer the finest sample procurable. Lb. 70 cts., 10 lbs. \$6.50, 25 lbs. \$15, 100 lbs. \$55.

GORSE or FURZE (*Ulex europæus*). This shrub makes British courses bright with its yellow blossoms in the spring. It is a slow grower and it will be some years before it will be effective. Broadcast ten pounds per acre over the "rough" and harrow in. Not recommended for the extreme North. Lb. \$1.50.

YARROW (*Achillea millefolium*). A deep-rooting, drought-resisting plant with delicate, fern-like leaves, sometimes used in mixtures for tees or polo fields. May be sown alone (when one pound is sufficient for an area of 40 by 40 ft.) or in combination with grass seeds. Lb. \$1.75, 10 lbs. \$16.



Fresh Meadow C. C., during Open Championship. Stumpp & Walter Seeds used

SEMESAN

For the control of brown-patch in turf

Infected turf is first drenched with a solution of Semesan and afterwards it is either sprayed with the solution or dusted with dry Semesan.

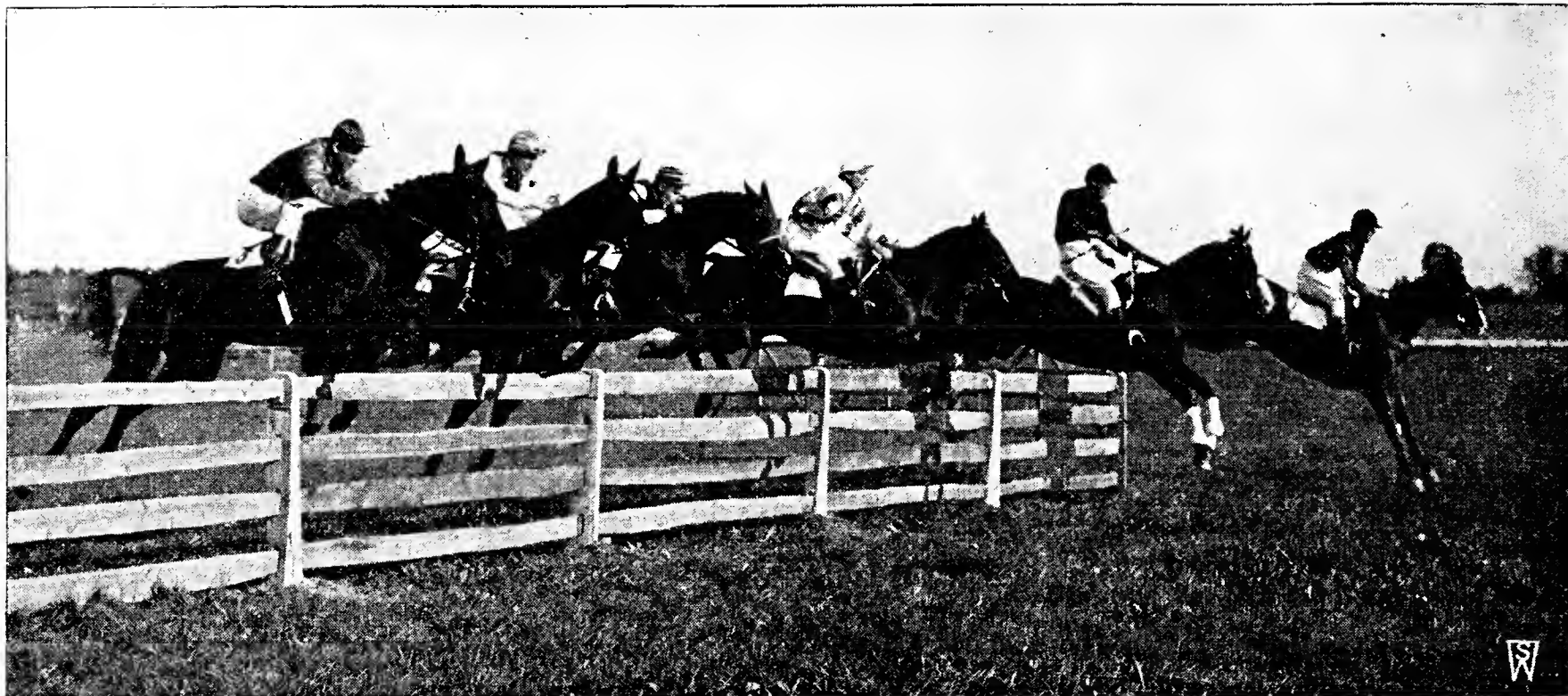
One pound of Semesan Powder is dissolved in a 50-gallon barrel of water, and this solution is applied at the rate of 5 quarts persquare yard to the affected areas, using a water can; this *drenches* the turf. Later, at intervals of ten days, the turf is *sprayed*, using 1 gallon of the solution to each 25 square yards. If preferred, the powder may be dusted on dry instead of spraying, using 1 pound of the powder per 1,000 square feet.

The quantity of Semesan required for the first drenching depends upon the extent of the infected areas; the subsequent spraying or dusting should be over the entire green, when 4 pounds of the powder in solution should be allowed to each average green; rather more is required if the powder is put on dry—allow 5 pounds to each average green. 2 ozs. 50 cts., lb. \$2.50, 5 lbs. \$11.75, 25 lbs. \$46.25, 100 lbs. \$180.



Waterhole, Essex County Country Club, N. J. Stumpp & Walter Seeds used

Turf for Sports



Early spring, autumn, or just prior to winter are favorable periods for repairing and improving the turf of a racetrack

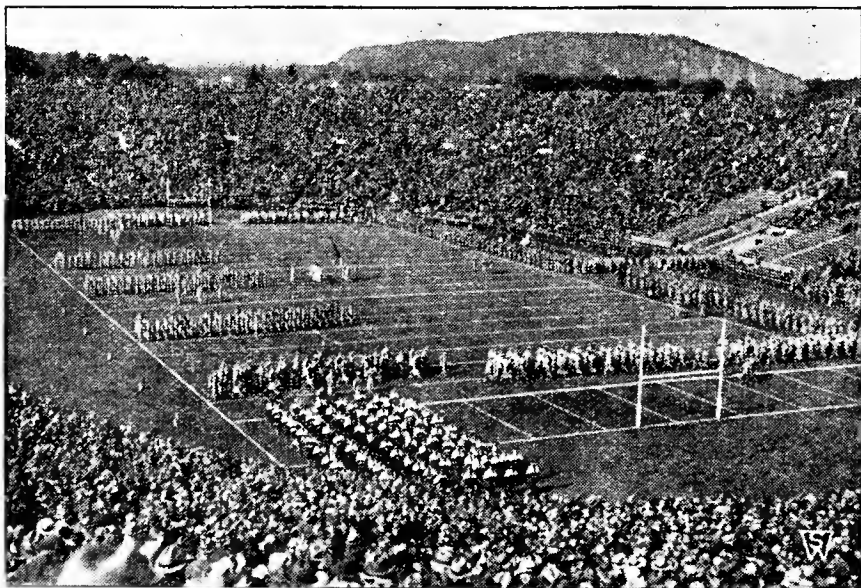
For Lawn Tennis

West Side Tennis Formula. The turf required for this sport must be firm and yet elastic, fine and composed of grasses which may be mown closely. Also, it must be one which will stand up well under the frequent rolling and localized wear of lawn tennis. Sow 15 pounds per 2,000 square feet when building new courts; allow one-half this quantity for renovating. **Lb. 65 cts., 2½ lbs. \$1.55, 5 lbs. \$3, 12½ lbs. \$7.25, 25 lbs. \$14, 100 lbs. \$55. Charges prepaid.**

For Polo

Hurlingham Formula. The mixture used successfully on the well-known English field. Only the toughest, deepest-rooting varieties of grass will survive the pounding and tearing of polo ponies. Maximum depth of root may be obtained, too, by incorporating Sawconure or rotted stable manure with the upper 5 inches of topsoil when building a field; also by almost daily mowing, but with the cutters set as high as the play will permit—in other words, mow the grass very frequently, but as “long” as possible. Use 200 pounds of this seed per acre for new fields. **Lb. 65 cts., 5 lbs. \$3, 12½ lbs. \$7, 25 lbs. \$13, 100 lbs. \$45. Charges prepaid.**

Allow one-half the above quantities when renovating existing turf



The Bowl at Yale University, New Haven, Conn. Stumpp & Walter Co.'s Grass Seeds used and advisory recommendations made for Bowl as well as Golf Course, Football, and Polo Fields.

For Racetracks

Racetrack Formula. A mixture of desirable varieties of high germination. Grows well from early spring, through summer and autumn to winter. Produces a turf which is tough, thick, dark green and vigorous. Use 100 lbs. per acre for new tracks. **100 lbs. \$30, 1,000 lbs. \$275. Charges prepaid.**

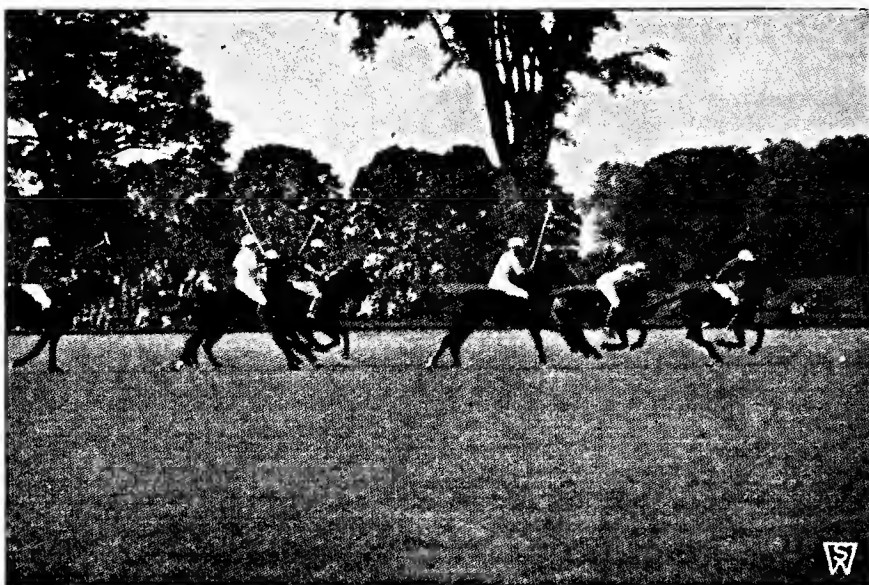
For Aviation

Airport Formula, Superfine Quality. A special combination of deep-rooting and spreading grasses that will produce a strong, densely matted turf. It gives a sward of a *deep green* color. Use 100 lbs. per acre. **100 lbs. \$35, 1,000 lbs. \$300. Prepaid.**

Airport Formula, Fine Quality. Gives a tough, wear-resistant turf, of a *gray-green* color. Sow at the rate of 100 lbs. per acre for a new field. **100 lbs. \$25, 1,000 lbs. \$225. Charges prepaid.**

For Football

Touchdown Football Formula. Consists of the most suitable varieties of grasses properly proportioned. We vary the formula to suit your soil, which please describe when ordering. Sow 10 pounds per 2,000 square feet when building new fields; allow one-half this quantity for renovating. **25 lbs. \$13, 100 lbs. \$45. Prepaid.**



The turf of the Sands Point Polo Field is kept in its fine condition by occasional dressings of Stumpp & Walter Co.'s Grass Seeds and Fertilizers



How to Make a Lawn

With "Staigreen" Grass Seeds



THE production of a good lawn is not at all difficult. The method is as follows: (1) Dig the soil about 6 inches deep, but only when it is dry; if rain has fallen recently allow a few days of fine weather to elapse before commencing work. (2) As you dig, lift each clod high enough to enable you to turn it completely over. (3) Strike the inverted clod with the back of the fork to break it. (4) As the work proceeds, remove all stones, sticks, and rubbish. (5) Scatter **Stump & Walter Co.'s Emerald Grass Fertilizer** on the dug earth; use 1 ton per acre or 50 pounds to each 1,000 square feet. (6) Draw a rake back and forth until the soil is smooth and in fine condition. (7) Sow **Staigreen Lawn Seed** at the minimum rate of 100 pounds per acre (4 bushels) or 1 pound (nearly 2 quarts) to each 400 square feet. Double the quantity when turf is needed quickly. Select a day when no wind is blowing; divide the seed into two portions and sow the land twice to insure its even covering; it is important to stir the contents of the bag now and again. When you have sown the seed, rake the land once more, but very lightly. Do not work the rake back and forth—merely draw it toward you in a series of light strokes, raking only once in the same place. The idea is to bury most of the grass seeds no more than $\frac{1}{8}$ inch deep. (8) Roll the seeded area, but should rain fall before the work is completed, defer the rolling until the land has dried.

How long will the Lawn be growing? This varies with the time of year, quality of soil, rainfall, etc. Under very favorable conditions the young seedlings show through in less than ten days and the whole area looks green in a further two weeks; wait four weeks more before walking on the grass except to mow and roll it.

When is the best time? Early spring and late summer are most favorable, while seed will grow eventually if sown in winter. Watch for and remove crab grass from late spring sowings. Do not sow during hot weather.

Will the above directions hold on poor or sandy land? Before commencing work on poor soil, spread rotted horse-manure or cow-manure over the land at the rate of 20 tons to the acre or 1 pound per square foot. Then proceed exactly as directed. If manure cannot be procured, use Sawconure at the rate of 1 to 2 tons to the acre or 50 to 100 pounds to each 1,000 square feet. Do not attempt to grow a lawn on excavated soil, subsoil, or "fill" without first applying manure or Sawconure, digging, then adding at least an inch of top-soil, two or three if possible. Apply Emerald Grass Fertilizer, and proceed as suggested.

How about moist, sour soil? Spread hydrated lime on the dug-over land at the rate of 2 tons per acre or 1 pound to each 10 square feet; then follow directions. In bad cases it will be necessary first to drain the land by digging ditches and laying tile.

Should I sprinkle the new Lawn with water? Yes, if seeding is followed by hot, dry weather. Otherwise it is best not to water for the first three weeks. Later, when the grass has started, it may be watered as required: use an approved sprinkler and soak every three days.

EMERALD GRASS FERTILIZER. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$4.50, 500 lbs. \$20, ton \$62.50.

SAWCONURE. Rotted manure substitute. 100 lbs. \$4.50, 500 lbs. \$17.50, 1,000 lbs. \$30, ton \$50.

What after-care is needed? As soon as the young grass is 2 inches high, begin cutting it and keep it regularly mown; roll it occasionally, and water during dry weather.

How about Weeds? Stump & Walter Co.'s seeds are as free from weeds as care and modern machinery can make them. All soils, however, contain seeds of weeds—some more than others—and many of these start to grow along with the grass. Close cutting will kill most of them, but the few that remain must be taken out, and the holes filled with good soil in which you have mixed some grass seeds.

How about White Clover? We include Clover only in our lowest-priced mixture, which we call "High-Grade Lawn Seed," because Clover is generally omitted nowadays in the finest lawns. For the convenience of our customers who wish it, we offer **Superfine White Clover**. Oz. 10c., $\frac{1}{4}$ lb. 25c., lb. 70c., 10 lbs. \$6.50, 100 lbs. \$55. Mixed with grass seeds, usual allowance of Clover is 5 per cent.

Is "Staigreen" the best seed to use? No seeds are purer and grow more vigorously than the grass seeds in Staigreen, which is a mixture of five distinct varieties, and for the finest lawns around the residence Staigreen cannot be surpassed. For shade and special conditions use mixtures described on the preceding pages. **Staigreen Lawn Mixture**, packed in 1-lb. sifter-top container, 60c., $2\frac{1}{2}$ lbs. \$1.40, 5 lbs. \$2.75, 12 $\frac{1}{2}$ lbs. \$6.25, 25 lbs. \$12, 100 lbs. \$45.



To Renovate a Jaded Lawn

1. Mow closely and remove weeds.
2. Scratch the surface with a rake.
3. Broadcast Sawconure, 50 pounds per 1,000 square feet, and Emerald Lawn Fertilizer, 20 pounds per 1,000 square feet. At this time, spreading sufficient top-soil to make an even surface without hiding the grass, will be beneficial.
4. Rub with the back of the rake.
5. Sow Staigreen, $2\frac{1}{2}$ pounds per 1,000 square feet.
6. Again rub with the back of the rake. Grass must be dry; early spring and late summer most favorable seasons.



Individual Grass Varieties

These individual grasses are employed in the compounding of our mixtures for Fine Lawns, Golf Courses, Parks, Polo Fields, Playgrounds, Hay and Pasture Fields. Occasionally they are used alone when special conditions indicate that one sort only should be sown.

We offer our seeds strictly as of proved maximum purity and maximum vitality. In other words, we do not allow them to leave our premises until the findings of our Analyst, supported by certificates of Federal and state testing stations, show the highest possible percentage of purity and germination. Purchasers may be assured of other points of superiority: botanical trueness, newness, high specific gravity, and, most important of all, practical freedom from seeds of harmful weeds.

Large quantity users, such as Golf Clubs, Polo Fields, Parks, Cemeteries, etc., should write for special prices on quantity lots



Packed for protection, preservation, identification

Seaside Bent is now packed in 50-pound tin canisters, enclosed in strong wooden boxes. We pack Triple A Bent in similar containers.

live seeds in good samples consist of three closely related valuable turf grasses, as much as 30 per cent Velvet Bent, 50 per cent Rhode Island or Colonial Bent, and 3 per cent Carpet or Creeping Bent. Under the name of German Creeping Bent, for many decades, good lawns and putting-greens have been sown with this seed, producing turf of exceedingly fine texture and pleasing color.

FINE RECLEANED SEED. High germination \$1 35 10 lbs. \$12 00 100 lbs. \$105 00
Choice Superfine Sample. For specialists' use. Quantity limited 1 55 14 00 125 00

VELVET BENT (*Agrostis canina*). A variety which is ideal for the finest lawns of all. This is the dwarfest of the turf grasses, producing a sward of exquisite, silk-like texture and bright emerald color. Most of the finest putting-green turf that has been produced in America since golf courses were first constructed consists of Velvet Bent. Only limited quantities of pure seed are procurable. Lb. \$6.

RED-TOP (*Agrostis alba*). A good pasture and hay grass and valuable as a nurse in lawns. If permitted to grow without cutting, it becomes large, but it is short-lived under mowing and does not become coarse if cut. Red-Top is recommended as an ingredient in most lawn seed mixtures.

FINE RECLEANED SEED. High germination \$0 35 10 lbs. \$3 00 100 lbs. \$20 00
Choice Superfine Sample. For specialists' use. Quantity limited 40 3 50 27 50

CREEPING BENT STOLONS (*Agrostis palustris*). **Metropolitan** and **Washington Strains.** See page 5. 5 sq. ft. (plants 40 sq. ft. of lawn) \$2, 25 sq. ft. \$8, 100 sq. ft. \$25, 1,000 sq. ft. \$225.

Agrostis Varieties or Bents 1 lb. contains about 4,000,000 live seeds

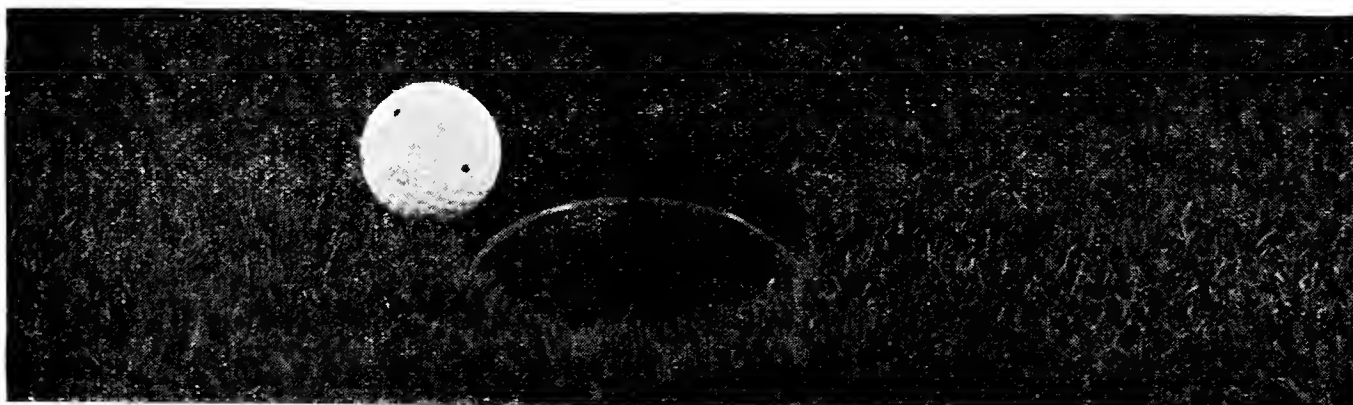
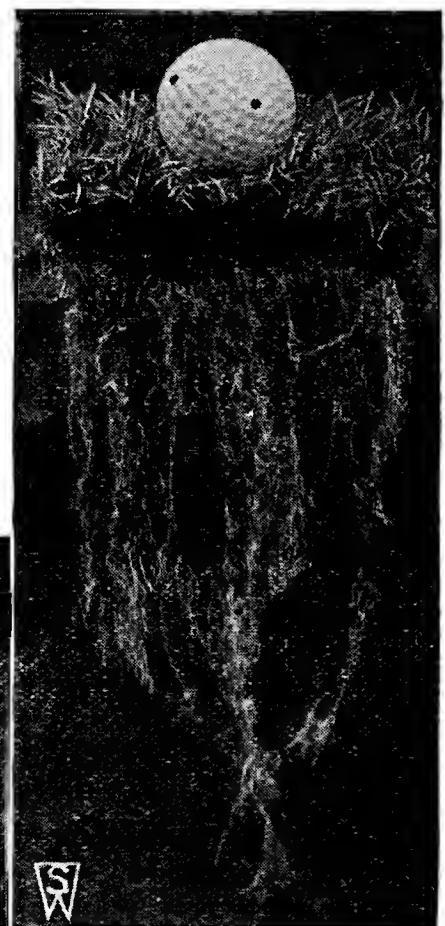
SEASIDE BENT (*Agrostis palustris*; *A. maritima*). Coos County Strain, which is especially suitable for fine putting-greens and carpet-like lawns. It is a quick-growing grass. The plant is dwarf and it multiplies rapidly by sending out runners or stolons in all directions; from these runners new plants are produced, and these, in turn, grow more runners and plants. The tendency, therefore, is for turf to become close and matted, and if the grass is damaged in any way, or when weeds are taken out, the turf heals over promptly. Often weeds are crowded out. Both in habit and in appearance the turf is very like one produced by "vegetating" or planting stolons of the Creeping Bent, while turf of Seaside Bent, obtained by sowing seed, possesses the same uniform rug-like appearance. Not all Seaside Bents are alike; the plants show considerable variation, and it is necessary to obtain seed of known quality from a reliable source; our personal representative in the collecting areas passes on the seed supplied by us, knowing the actual plots from which each pound is gathered. Lb. \$1.40, 10 lbs. \$12.50, 100 lbs. \$110.

TRIPLE A BENT. In our opinion, the best type of *Agrostis capillaris*; produces a reinforced sod, stoloniferous, and with roots that penetrate to an exceptional depth. Under the close and constant mowing of a putting-green, it develops a turf akin to fine, silk-like Velvet Bent, and one which is bright in color, even under adverse conditions. Triple A Bent turf becomes green earlier in spring and retains its color later in autumn than other Bent grasses. Our seed has been remachined especially for the elimination of weed seeds, and it is remarkably free of them. It has been the outstanding plot in our trials for three seasons. Lb. \$1.40, 10 lbs. \$12.50, 100 lbs. \$110.

COLONIAL BENT (*Agrostis capillaris*). Identical with native Rhode Island Bent. Makes excellent turf on moist land, and is strictly permanent under close cutting. Our seed contains less than one-tenth of 1 per cent of weeds. Lb. \$1.35, 10 lbs. \$12, 100 lbs. \$105.

RHODE ISLAND BENT or COLONIAL BENT (*Agrostis capillaris*). Native seed. Produces a turf of good color, fine texture, and with considerable resistance to drought, poor soil, and cold. We offer a fine strain of this species harvested in the United States. Lb. \$1.40, 10 lbs. \$12.50, 100 lbs. \$110.

SOUTH GERMAN BENT or FIORIN. A natural mixture of *Agrostis canina*, *A. capillaris*, and *A. palustris*. Although the seeds are collected in Europe from plants which appear identical, analyses of German Bent and observation of experimental plots disclose the fact that the pure

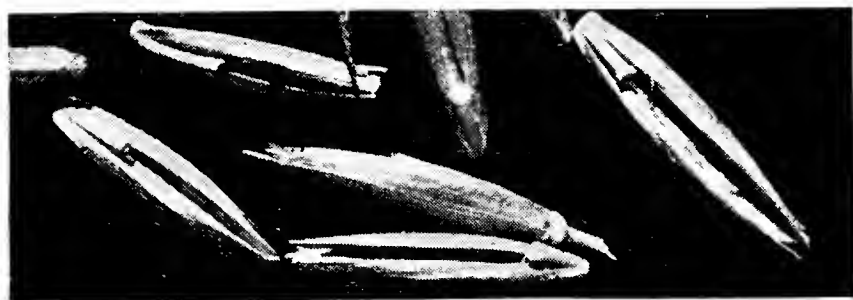


Turf of genuine Triple A Bent is fine and silk-like. Note the 12-inch root-growth and the reinforced sod; golf-balls are placed for comparison

INDIVIDUAL GRASS VARIETIES, continued

Fescue Varieties

One pound contains from 500,000 to 1,000,000 live seeds



Seeds of Chewing's New Zealand Fescue magnified 5 diameters

CHEWING'S NEW ZEALAND FESCUE (*Festuca rubra fallax*). Produces a mat-like turf of a brownish green color. The leaves are fine, needle-like, and bristly. Makes excellent putting-greens, golf fairways, and lawns, suits almost all soils, including those of a light nature, and does well in shade. The most resistant of all grasses to hard wear. Lb. 50 cts., 10 lbs. \$4, 100 lbs. \$30.

FINE-LEAVED FESCUE (*Festuca tenuifolia*). A splendid grass for putting-greens, producing a beautiful, soft, velvety turf. The best grass for sowing in the spaces between flagstones in the garden path. Lb. 60 cts., 10 lbs. \$5.50, 100 lbs. \$45.

RED FESCUE (*Festuca rubra*). European; similar to Chewing's Fescue, but not so desirable because occasional plants of Sheep's Fescue may be found in turf grown from inferior samples. Lb. 50 cts., 10 lbs. \$4, 100 lbs. \$30.

CREeping RED FESCUE. This has narrow, wire-like leaves, and is dark vivid green in color. It is not so dwarf a plant nor are the leaves so fine as those of Chewing's Fescue. Lb. 75 cts., 10 lbs. \$6.50.

SHEEP'S FESCUE (*Festuca ovina*). A wiry, stiff, blue-green grass suitable for turf on poor soils. Has a tendency to "tussock" and should always be sown in conjunction with other grasses. Ideal for bunkers and the rough on a golf course; valuable as a sheep-pasturing variety. Lb. 45 cts., 10 lbs. \$3.50, 100 lbs. \$25.

HARD FESCUE (*Festuca duriuscula*). Similar to the above grass, and, like it, of more use to the sheep-farmer than to the lawn-keeper. Lb. 45 cts., 10 lbs. \$3.75, 100 lbs. \$27.50.

MEADOW FESCUE (*Festuca pratensis*). A flat, broad-leaved grass, furnishing an abundance of fodder as hay or pasture. Tall and grows quickly. Lb. 35 cts., 10 lbs. \$2.75, 100 lbs. \$17.50.

VARIOUS-LEAVED FESCUE (*Festuca heterophylla*). Used to a limited extent in sports grass formulas and for hay and pasture. Lb. 80 cts., 10 lbs. \$7, 100 lbs. \$60.

Sundry Varieties

ANNUAL BLUE GRASS (*Poa annua*). Dwarf plant that spreads rapidly by depositing its own seed. It is in flower throughout the entire growing season. Produces its best turf early and late. Objectionable to many but preferred by some for lawns and putting-greens. Lb. 75 cts., 10 lbs. \$6.50, 100 lbs. \$55.

AWNLESS BROME GRASS (*Bromus inermis*). Grows 30 inches high and has creeping roots. Useful for binding embankments. A pasture grass for dry soils. Lb. 40 cts., 10 lbs. \$3.50, 100 lbs. \$30.

CRESTED DOG'S-TAIL (*Cynosurus cristatus*). A good turf and pasture variety, but will thrive only in situations especially favorable to it. Lb. 50 cts., 10 lbs. \$4, 100 lbs. \$30.

MEADOW FOXTAIL (*Alopecurus pratensis*). As a field grass gives large yields early. Lb. \$1, 10 lbs. \$9.50, 100 lbs. \$85.

ORCHARD GRASS or COCKSFOOT (*Dactylis glomerata*). A large, bluish green plant, widely used for hay and pasture; thrives in partial shade. Lb. 40 cts., 10 lbs. \$3.50, 100 lbs. \$25.

SWEET VERNAL (*Anthoxanthum odoratum*). A dwarf-growing grass, useful for lawns, pastures, and hay. Very fragrant when drying, its presence being responsible for much of the scent of new-mown hay. Lb. \$1.50, 10 lbs. \$13.50, 100 lbs. \$125.

TALL OAT GRASS (*Avena elatior*; *Arrhenatherum elatius*). A large plant, valuable for hay, pasture, and silage. Lb. 45 cts., 10 lbs. \$4, 100 lbs. \$35.

TIMOTHY (*Phleum pratense*). A quick-growing, tall, coarse grass, not recommended for inclusion in lawn mixtures, but of great value for hay and pasture; the most important American grass for these purposes. Lb. 30 cts., 10 lbs. \$2, 100 lbs. \$12.

WHITE CLOVER (*Trifolium repens*). This familiar plant is sometimes used for lawns and by the farmer for pasturage. It grows quickly, forms a close herbage, and remains green throughout the season. Lb. 70 cts., 10 lbs. \$6.50, 100 lbs. \$55.

Poa Varieties

One pound contains about 2,000,000 live seeds



Seeds of Bird-Grass magnified 5 diameters

BIRD GRASS or ROUGH-STALKED MEADOW GRASS (*Poa trivialis*). One of the few grasses that will grow in shaded situations. A desirable ingredient in shaded fairways and putting-greens. Resistant to drought. Lb. 50 cts., 10 lbs. \$4, 100 lbs. \$30.

KENTUCKY BLUE GRASS (*Poa pratensis*). Used for all lawn purposes in the northern states. Desirable as a golf fairway grass, particularly on rich soils that have been limed. A valuable pasture grass. In our Superfine Quality we offer seed 98 per cent pure, with less than one-tenth of 1 per cent of weed seeds.

	Lb.	10 lbs.	100 lbs.
Fine Recleaned Seed. High germination	\$0 40	\$3 25	\$25 00
Choice Superfine Sample. For Specialists' use. Quantity limited.....	50	4 25	35 00

CANADA BLUE GRASS (*Poa compressa*). Similar to Kentucky Blue Grass but is of a less pleasing color. It is sometimes regarded as a cheaper substitute for Kentucky Blue Grass, but is useful because it will thrive in warmer climates than most of our northern grasses. Lb. 40 cts., 10 lbs. \$3.25, 100 lbs. \$25.

WOOD MEADOW GRASS (*Poa nemoralis*). Lb. 85 cts., 10 lbs. \$7, 100 lbs. \$65.

Rye Grasses

One pound contains about 300,000 live seeds

ENGLISH RYE GRASS (*Lolium perenne*). A quick-growing, tall grass, sometimes included in mixtures for lawns as a nurse-grass and where immediate results are essential. Not permanent in turf, the close cutting causing it eventually to disappear, by which time the other sorts in the mixture are established. A valuable hay and pasture variety. Lb. 30 cts., 10 lbs. \$2.50, 100 lbs. \$17.50.

PACEY'S PERENNIAL RYE GRASS (*Lolium perenne Pacey*). A smaller-seeded, slightly dwarfer type of English Rye Grass and more suitable for lawns. Lb. 35 cts., 10 lbs. \$2.75, 100 lbs. \$20.

ITALIAN RYE GRASS (*Lolium italicum*). A coarse, tall grass, useful in the southern states for forming a winter turf, and in the North as a mammoth producer of hay on irrigated, rich land. Lb. 30 cts., 10 lbs. \$2.50, 100 lbs. \$17.50.

Grasses for the South

BERMUDA GRASS (*Cynodon dactylon*). Much used for a summer turf from Virginia south. Seeding is to be preferred to the planting of sprigs of Bermuda as producing a finer turf, and the best samples of seed are those containing a high proportion of the fine, dwarf type of Bermuda, known as the "Atlanta Strain." Lb. 45 cts., 10 lbs. \$3.50, 100 lbs. \$27.50.

CARPET GRASS (*Axonopus compressus*). A coarse grass, useful for lawns and golf fairways in the South, especially on moist land. Lb. 45 cts., 10 lbs. \$3.50, 100 lbs. \$27.50.

RHODES GRASS (*Chloris virgata*). A large, broad-leaved grass, splendid for hay south of the Mason and Dixon's Line. Crop very small. Write for prices.

DALLAS GRASS (*Paspalum dilatatum*). A strong-growing perennial, furnishing good grazing summer and winter in the southern states. Lb. 75 cts., 10 lbs. \$7, 100 lbs. \$60.

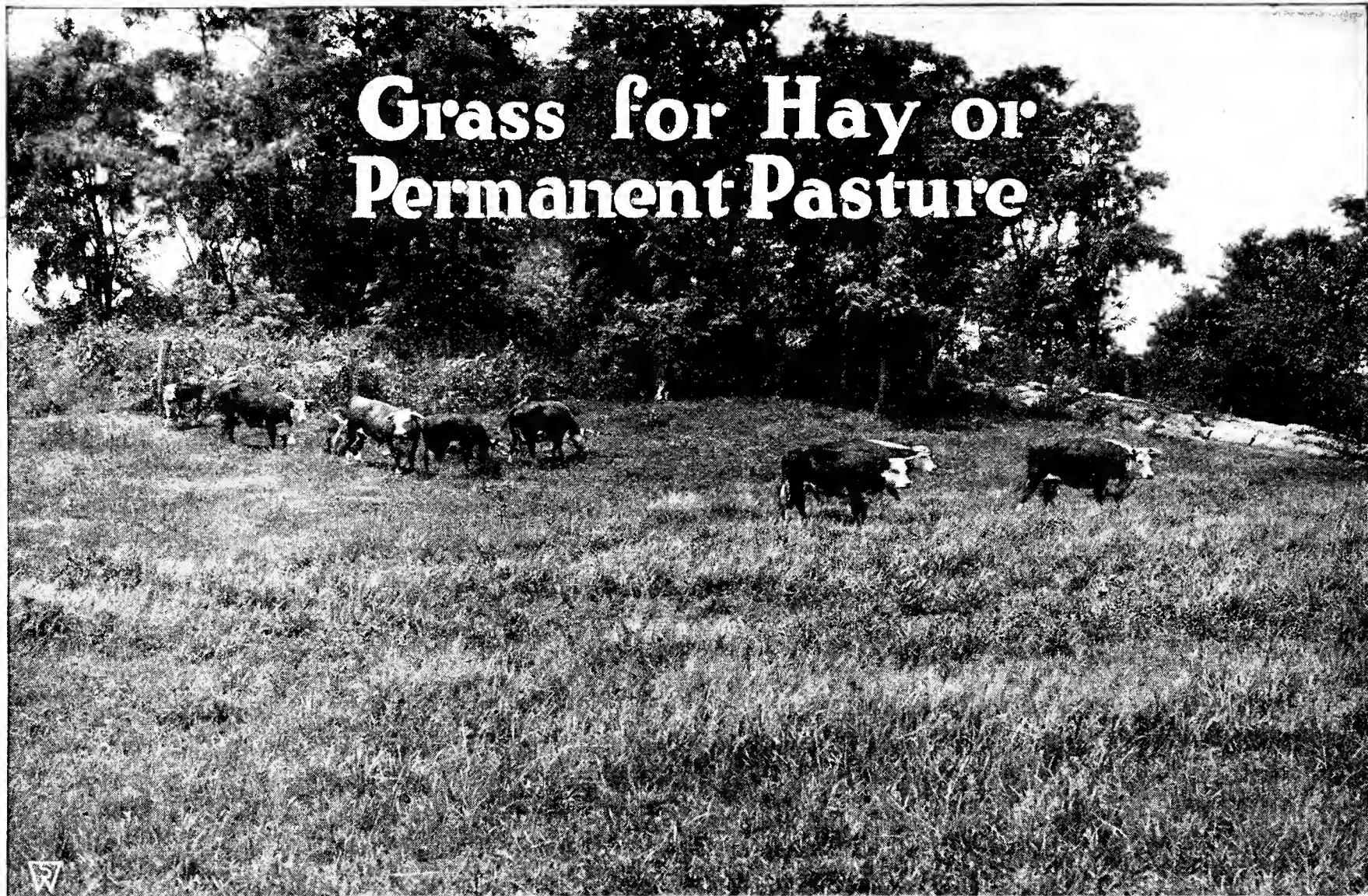
DOMESTIC RYE GRASS. A mixture of Italian and English Rye Grasses, produced in the United States and much used as a temporary winter turf in the South on account of its low cost. Lb. 25 cts., 10 lbs. \$2, 100 lbs. \$12.50.

Large quantity users, such as Golf Clubs, Polo Fields, Parks, Cemeteries, etc., should write for special prices on quantity lots

May We Help?

If you have a problem with your present lawn, or wish suggestions as to making a new one, write to the Bureau of Information at our New York office. No charge or obligation.

Grass for Hay or Permanent Pasture



Timothy, Red-Top, and Red Clover have long formed the standard hay and pasture mixture for use on the American farm. It is not an ideal combination, but is inexpensive and we offer it under the heading of **Timothy-Red-Top-Clover Formula**. For large yield and nutrition, we recommend that a much wider variety than this be sown, using in addition to the above such types as Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island Bent, Fiorin or German Bent, and Triple A Bent, Sweet-scented Vernal, Meadow Fescue, the Rye Grasses, the Blue Grasses, Oat Grass, Red, Mammoth, White, Wild White and Alsike Clovers; each of these is suited especially to certain kinds of soil and climatic conditions; some do well on high ground, others prefer plenty of moisture. It is necessary that these be selected in proper proportions, suitable to the soil conditions and for the purpose required. We use the best re-cleaned seeds only in these mixtures.

CLOVER AND GRASS FORMULA. For high-quality hay or pasture. Includes a wide range of both grasses and clovers. Use 50 lbs. per acre when sowing new land. **Lb. 50 cts., 10 lbs. \$4, 100 lbs. \$30.**

ALL-GRASS FORMULA. For high-quality hay or pasture. Grasses only—no clovers. Use 75 lbs. per acre when sowing new land. **Lb. 45 cts., 10 lbs. \$3.50, 100 lbs. \$25.**

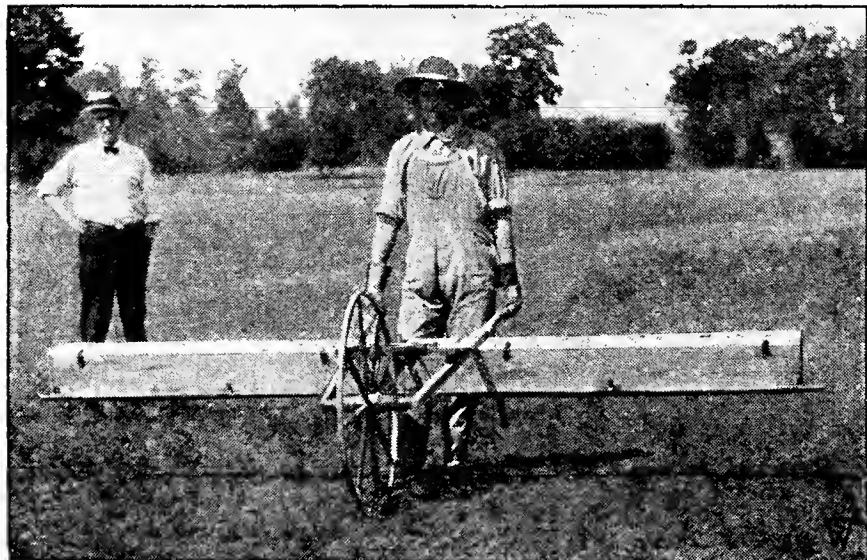
ALL-CLOVER FORMULA. For pasture. Use 20 lbs. per acre when sowing new land. **Lb. 60 cts., 10 lbs. \$5, 100 lbs. \$40.**

TIMOTHY-RED-TOP-CLOVER FORMULA. For hay and pasture at low cost. Use 40 lbs. per acre when sowing new land. **Lb. 35 cts., 10 lbs. \$2.50, 100 lbs. \$17.50.**

For renovating existing fields, use one-half the above quantities

IMPORTANT. When ordering these seeds, tell us whether the field is to be used for hay or pasture, or both; please also describe the nature of your soil.

S. & W. CO.'S GRASS SEEDERS AND SOWERS



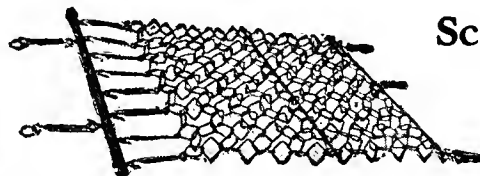
S. & W. Co.'s Grass Seeder and Sower

The 10-foot hopper, holding $1\frac{1}{2}$ bushels, will sow uniformly and accurately, without bunching, the desired quantities of any kind of hay, pasture or lawn-seed mixture. The hopper is carried beneath the handles and discharges close to the ground, so wind does not affect the sowing of even the lightest seeds. Sows from 50 to 125 pounds per acre. The machine also may be furnished for sowing dry powders and Vermol Worm Eradicator.

No. 1. For sowing grass seeds.....\$22 00

No. 2. For sowing dry powders..... 21 00

No. 3. For sowing Vermol Worm Eradicator..... 20 50



Scotch Chain Harrow

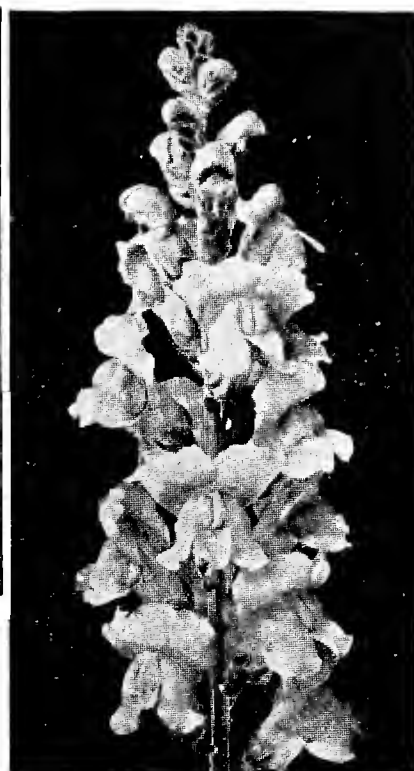
Hundreds of wrought-iron links are woven into what is practically a blanket of chain. This arrangement is ideal in smoothing land as a final preparation for grass seeds. It may also be drawn over a field after manure has been spread for the purpose of distributing it. Used on driveways and racetracks, it smooths the surface, eliminating ruts and foot-prints. Small size, one-horse, 5 x 6 ft., \$25; Medium, two-horse, 6 x $7\frac{1}{2}$ ft., \$35; Large, tractor, $7\frac{1}{2}$ x $7\frac{1}{2}$ ft., \$45.



Aster, Late Branching Wilt-Resistant



Ageratum, Venus



Super-Giant Snapdragons

S. & W. Co.'s Novelties and Specialties in Flower Seeds

Dwarf Ageratum

Blue Cap. Tiny variety with very large flowers of a deeper, truer blue than the type. An easily grown annual, seeds of which, for outdoor cultivation, may be sown from February under glass to May in the open ground. **Pkt. 35 cts., 3 pkts. \$1.**

Venus. Grows about 1 foot high. The buds are red, opening to flowers whose petals are white, contrasting with the soft red centers. An exceptionally good variety, not only for pots but also fine for bedding. **Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50.**

Anagallis, Blue Bird

This dwarf annual makes a splendid edging plant because its flowering period is so long and its blossoms are so beautiful a shade of lobelia-blue. Like its wild relative, the Scarlet Pimpernel, it opens its flowers widest when fine weather is due and closes them tight as a storm warning. **Pkt. 15 cts., 1/4oz. 50 cts.**

Half-High Antirrhinum

Malmaison. Most beautiful small Snapdragon you can grow. The color is a pure silvery pink, contrasting well with the deep green foliage. Height 20 inches. Antirrhinum seed is often sown in the open ground in May to bloom the same summer, but it is best to start the plants indoors or in a frame during March to have them in bloom earlier. **Pkt. 25 cts., 1/4oz. \$1.**

Flame. As a bedding or border variety, it has no peer. Under ordinary cultivation the plants grow from 1 1/2 to 2 feet high. The individual florets are of good size, well placed on fine, showy spikes, and the color is a rich, dazzling scarlet, giving the impression of a brilliant flame. **Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.**

Super-Giant Antirrhinums

In our trials we find the following of excellent merit. Height 3 feet. The individual flowers are very large and the colors distinct.

Salmon Rose. (New.) A most beautiful shade of salmon combined with begonia-rose color. **Pkt. 50 cts., 5 pkts. \$2, 1/8oz. \$2.50.**

Autumn Glow. (New.) Of all the available colors in this beautiful class, this is the most wonderful—old-rose, shaded terra-cotta. **Pkt. 50 cts., 5 pkts. \$2, 1/8oz. \$2.50.**

BEST SIX POPULAR VARIETIES

Apple Blossom. Apple-blossom-pink.

Canary Bird. Canary-yellow with deeper yellow lip.

Copper King. Bronzy copper color.

Golden Queen. Rose on yellow ground.

Snowflake. Dazzling white.

Wallflower. Dark wallflower-red.

Mixed Super-Giants. A mixture of all shades.

Each, pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50

SPECIAL COLLECTION: 1 pkt. each 6 best varieties, \$1

Auricula, New Triumph Strain

A giant-flowering type of this handsome conservatory or spring bedding plant. The primrose-shaped blooms measure from 1 1/2 to 2 inches in diameter and are borne on extra-strong stalks in an immense variety of color, ranging from dark crimson-scarlet through pink and terra-cotta to primrose and cream.

Seed may be sown under glass in March, and the plants carried along for blooming indoors the following winter, or for bedding during the ensuing spring. Although a hardy perennial and not of difficult culture, Auriculas are recommended more for the professional gardener than the amateur. **Pkt. 50 cts.**

Arctotis breviscapa aurantiaca

This new annual may be sown under glass or in the house in late winter and planted out when danger of frost has passed or seed may be sown in the open ground in early May. Growing a little taller than 6 inches, it has dark orange, daisy-like flowers, shading to reddish brown on the back. **Pkt. 35 cts., 3 pkts. \$1.**

Aster, New Giant Peony-flowered

This magnificent strain is one of the finest Asters ever introduced. It is exceptionally good for cutting, the stems being upright, non-lateral branching, and the flowers keep splendidly. They often exceed 6 inches in diameter. **White, Apple-Blossom, Rose, Azure-Blue, Peach-Blossom, Purple, Mixed. Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50, oz. \$5.**

Aster, New Cactus-flowered, The Elf

This sturdy little plant reaches a height of only 20 inches. It bears large, delicate flesh-colored blooms that measure 2 1/2 inches across. On long stalks, each floret is curled at the end. A fine variety either for bedding or for cut-flowers. **Pkt. 50 cts.**

Wilt-Resistant Asters

We offer the following strains, newly bred to resist the Fusarium Wilt. The descriptions of the particular classes on pages 27 and 28 apply equally to these new types; to obtain them, however, be sure to include the letters WR when writing out your order.

Queen of the Market, WR Crimson, WR Dark Blue.

Early Royal, WR Purple.

Improved Crego, WR White, WR Deep Rose, WR Shell-Pink.

King, WR Crimson King.

Astermums, WR White.

Late Branching, WR Crimson, WR Purple, WR Shell-Pink.

WR Pure White, WR Mixed.

Beauty, WR Carmine-Rose.

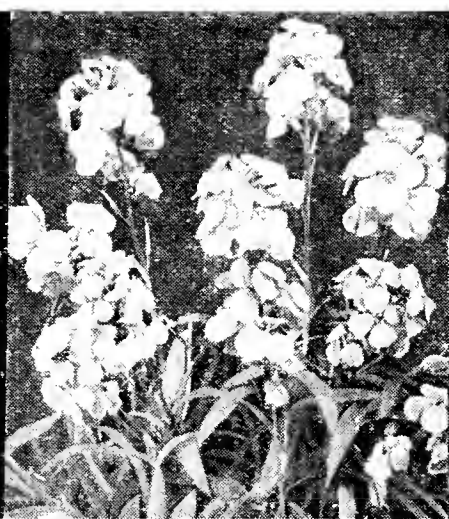
WR Heart of France.

Prices of any of the above Wilt-Resistant Asters, except Mixed, **Pkt. 25 cts., 5 pkts. \$1, 1/8oz. \$1.25, 1/4oz. \$2**

Branching, WR Mixed. Pkt. 15 cts., 1/8oz. 75 cts., 1/4oz. \$1.25.



Calendula



Cheiranthus Allioni



Cheiranthus Kewensis



Shasta Daisy

Greenhouse Calceolaria, Albert Kent

This fine Calceolaria grows about 1½ feet high and bears immense trusses of bloom from the beginning of May onward through the summer. The individual flowers are about 1½ inches across. They are graceful in shape, and of a bright golden yellow color with a rich maroon-red blotch. A prominent feature of Albert Kent is that although it is an indoor sort, it may be planted outside in a sheltered situation with good effect. Tender, treated as an annual, seed is sown from March onward under glass. **Pkt. 25 cts., 5 pkts. \$1.**

Bedding Calceolaria lignosa (Bunch of Gold)

One of the finest of all Calceolarias for bedding purposes. The plants grow about 1 foot high and produce several bunches of beautiful golden yellow flowers continuously all summer. Bedding Calceolarias are recommended only to the professional gardener; the amateur may experience some difficulties with them. **Pkt. 50 cts., 5 pkts. \$2.**

Four New Giant Calendulas

Hardy annuals, blooming all summer. For garden use, sow in the open in spring, or earlier indoors, and transplant.

New Double Art Shades. A mixture in which are many colors that hitherto have been unobtainable in the Calendula—tints and pastel hues of cream, apricot, deep yellow, tangerine, etc. A fine strain suitable for both indoor and outdoor culture. **Pkt. 25 cts., 5 pkts. \$1.**

Chrysantha. This new break in the Calendula originated in Australia. Remarkable for its length of stem and the striking resemblance the flowers bear to the chrysanthemum. The florets are long, wide, and drooping, giving the large, double, buttercup-yellow flowers a globular outline. **Pkt. 25 cts., 5 pkts. \$1.**

Campfire (Sensation). This new type has been thoroughly tested and has been accepted as the best forcing Calendula. The flat blooms are undoubtedly larger than those of any other type. Its color is a brilliant orange, with a scarlet sheen, and a full yellow center. **Pkt. 25 cts., ¼oz. \$1, oz. \$3.50.**

Radio. The florets are beautifully quilled and the flower is very globular in shape. In color it is a warm, deep yellow. **Pkt. 25 cts., ¼oz. \$1, oz. \$3.50.**

Calliopsis, The Sultan

The best novelty in this easily grown annual. For bedding or borders, the plants growing 1 to 1½ feet high. The flowers are very large and of a rich maroon-crimson. **Pkt. 15 cts., ¼oz. 50 cts., oz. \$1.50.**

Campanula rotundifolia, Olympica

A variety of the Harebell or "Bluebells of Scotland" that is an acquisition in every rock-garden. Hardy perennial, growing 1 foot high, it bears light blue, bell-shaped flowers in great profusion during the entire season. The variety does quite well in partial shade. **Pkt. 25 cts., 5 pkts. \$1.**

New Annual Canterbury Bell, Mixed Hybrids

Ordinarily a biennial, needing a year in which to mature, but these hybrids may be sown in February under glass, planted out in spring, and will be in bloom by the end of July the same year.

Thus we have a good annual Canterbury Bell which flowers in less than six months from seed. It should now be possible to have this effective subject in bloom at almost any time of the year.

The hybrids grow from 2 to 2½ feet tall, each plant producing six to eight spikes of bloom. We offer them in a mixture consisting of Dark Blue, Light Blue, Pink, Rose, and White. **Pkt. 25 cts., 5 pkts. \$1.**

Cephalaria alpina

A tall, hardy perennial for planting at the back of the border or to hide fences. Grows 5 feet high and has yellow, scabious-like blossoms on long stems. It is a striking plant in appearance and is valuable for cut-flowers. Blooms in July. **Pkt. 25 cts.**

Cheiranthus Allioni (Siberian Wallflower)

In presenting this beautiful little early-flowering perennial Wallflower, with gorgeous orange flowers, we suggest it as a splendid subject for the rock-garden or as a dwarf border plant. Will bloom throughout the summer if seed-pods are removed. May be sown in the open ground in September where required to flower the following spring, or will bloom first season from seed, if sown in a hotbed in March and transplanted outdoors in May. **Pkt. 25 cts., ¼oz. 75 cts., oz. \$2.50.**

Cheiranthus Kewensis (Greenhouse Wallflower)

A valuable, half-hardy, hybrid Wallflower for growing under glass. The flowers are light yellow on opening and change to mauve when more mature. The plants are freely branched, each stem carrying a long spike of flowers, and they grow 2 feet high. **Pkt. 25 cts., 5 pkts. \$1.**

Cheiranthus linifolius

Especially recommended for rock-gardens, growing 9 to 12 inches high, and covered with mauve flowers. **Pkt. 25 cts., ¼oz. \$1, ½oz. \$1.50.**

New Hardy Perennial Chrysanthemum

Piper Hybrids

These have been produced by hybridizing the early-flowering single Chrysanthemum with the late varieties. They combine the early-flowering habit of growth with the cold-resistant qualities of the hardy type. The blooms are of various forms and sizes, some measuring 4 inches across. Colors include exquisite shades of bronze, terracotta, pink, white, and crimson. The plants carry over the winter well and bloom in succeeding years. Seeds sown from January to early April under glass will begin to bloom in September of the same year. Sown outdoors they will not bloom until next year. **Seed, Pkt. \$1. Plants, in 2¼-inch Pots, \$3 per doz., \$20 per 100. Ready May 1.**

Two Fine New Shasta Daisies

Mrs. C. Lothian Bell. A very large type of hardy Marguerite which has produced flowers measuring 6 inches across. Blooms a month later than the well-known variety, Alaska (offered on page 37), hence the two sorts may well be planted together to give a succession of bloom. **Pkt. 25 cts., ¼oz. 75 cts.**

Dwarf Avalanche. A low-growing white perennial Daisy. When in flower, the plants are a mass of bloom, making a most effective display and at the same time the blossoms are excellent for cut-flower purposes. May be planted toward the front of the hardy border. **Pkt. 35 cts., ¼oz. \$1, oz. \$3.50.**

New Clarkia, Albatross

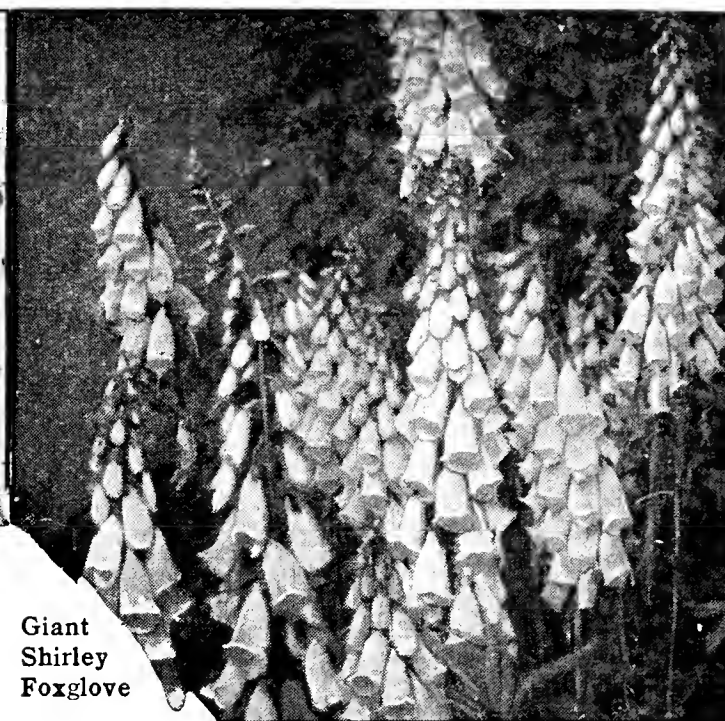
A tendency to straggle has hitherto been a defect with Clarkias, but this has been quite overcome in this beautiful new variety, which has a decidedly compact habit and is only 12 inches high. The flowers are pure white, very double, and appear in July. Clarkias are half-hardy annuals of easy culture, seeds being sown in the open ground in May, or earlier under glass, and the seedlings transplanted when frost is over. **Pkt. 25 cts., ¼oz. \$1.**



Yellow Cosmos, Klondyke



Eschscholtzia, Ramona



Giant
Shirley
Foxglove

Hardy Cyclamen (*Cyclamen europæum*)

For the Rock-Garden and Perennial Border

Stiles' Strain of Long-Island-grown, acclimated seed produces hardy little plants of this fragrant, almost everblooming and almost evergreen subject. Seed should be sown in early spring or late summer in a nursery bed of sandy soil outdoors, or in a coldframe. The plants should be shaded in summer. Seeds take two months or more to germinate. **Pkt. \$1.**

Yellow Cosmos, Klondyke

A dwarf type, blooming in late July. This fine Cosmos has orange-colored flowers. A valuable companion to the dwarf, early-flowering white, pink, and red varieties described later in this Catalogue. Hardy annual, easily grown from seed sown in early spring. **Pkt. 15 cts.**

Orchid-flowered Dahlia, Starfish

The florets of this Single-flowered Dahlia are crimped and twisted, giving a star-like effect. These flowers, on long stems, are excellent for cut bloom because of their unusual and captivating shape. All colors are represented in these hybrids, mostly two shades in the one flower. Seed may be sown in March under glass, and by June the plants will be in blossom; or the seed may be sown in the open after mid-May, and they will be in bloom by August. **Pkt. 35 cts., 3 pkts. \$1.**

DELPHINIUM

Annual Chinense, Cambridge Blue

After years of effort, a really good, clear, rich, light blue annual *Delphinium chinense* has been produced, similar in hue to the well-known Delphinium, Belladonna, but far surpassing it in brilliance. Excellent for mass planting or for cut bloom. Seed may be slow in germinating, so sow early under glass. Height 2 to 3 feet. **Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50.**

English Named Hybrids, Mixed

In response to numerous requests for English Named Hybrids, we are offering to the private gardener the two following strains in mixtures.

Giant-Flowering Type. This mixture consists of varieties such as Harry Smetham, Joan, Millicent Blackmore, Smoke of War, Lorenzo de Medici, Statuaire Rude, and many other varieties of this type. **Pkt. (about 200 seeds) \$1, 6 pkts. \$5.**

Wrexham or Hollyhock Type. This mixture contains the following varieties: Cambria, Great Strides, The Bishop, Wales, Jenny Jones, Norah Phillips, and numerous other varieties in this type. **Pkt. (about 200 seeds) \$1, 6 pkts. \$5.**

Iceberg

A beautiful hardy perennial Delphinium belonging to the Elatum class. The vigorous growing plant reaches a height of 4 feet and bears long spikes thickly crowded with large, pure white blooms. Sow seed in early summer to obtain plants of flowering size next year. **Pkt. 50 cts.**

Dianthus, Highland Hybrids

This hardy perennial, if sown this year, will bloom next and subsequent years. The dwarf Scottish Pinks are ideal for rock-gardens and for the front of the hardy border. The plant is practically perpetual flowering, and the colors are very varied. We offer in mixture only. **Pkt. 25 cts.**

Dianthus, Sweet Wivelsfield

A hardy biennial type which ordinarily is sown in July to flower the following year; if sown indoors during February or March, however, it will bloom the same year. Recommended for borders and rock-gardens; also as a cut-flower. Delicately fringed, sweet-william-like flowers in various colors are produced from July to frost. **Pkt. 15 cts., 1/8oz. 75 cts., 1/4oz. \$1.**

Two New Eschscholtzias

California Poppies

Hardy annuals that do not transplant very well, so they should be sown in early spring where they are to flower, and the plants thinned out to allow at least 4 inches between them.

Salmon Beauty. A double variety coming true from seed. The color is thoroughly fixed and does not vary at all between plants. Both inside and outside of the flower is salmon. Very distinct sort. **Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50.**

Ramona. (Fringed.) Glittering, coppery gold with pink shadings—a decided novelty. The flowers are single, but they are delicately fringed, giving them the appearance of semi-double blossoms. **Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50.**

Felicia Bergeriana

Kingfisher Daisy or Blue Marguerite

The leaves are grass-like, and the beautiful blue daisy flowers, with yellow centers, are 3/4 inch in diameter. An annual that is quite easily grown outdoors in summer or under glass at other times of the year, being then treated similar to cineraria. **Pkt. 35 cts., 1/8oz. \$1.50.**

Giant Shirley Foxglove

Digitalis

A new and magnificent strain of Foxgloves raised by the late Rev. W. Wilkes, who originated the Shirley Poppy. It is considered by plantmen as being the greatest improvement ever made in Foxgloves. The very vigorous plants attain the height of 5 to 7 feet, with spikes of bloom ranging in color from the purest white to dark rose, handsomely spotted and blotched with crimson, maroon, and chocolate. This is certain to supersede all other strains of Foxgloves. Seed sown this spring should produce plants which, if properly grown outdoors this summer and placed in their permanent positions before autumn, will make a glorious show next season. **Pkt. 25 cts., 1/4oz. \$1.50.**



Gaillardia, The Dazzler



Godetia, Scarlet, Edged White



Gerbera, Jamesoni Hybrids

Three New Gaillardias

Hardy Perennials

The Dazzler. The largest and most attractive giant red Gaillardia. Flowers very large, rich dark red, with a bright orange tip on the end of each floret. **Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.**

Portola Hybrids. The flowers produced by this strain are enormous and the color-range is fairly wide, centering around reddish bronze and gold. Plants are particularly robust. **Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.**

Tangerine. This strain of Gaillardia, although a great improvement over the original introduction, is still variable. However, there is a very large percentage of the true Tangerine in it. It may be described as a medium-sized flower of various shades of tangerine-orange. The color and general structure of the flower make it very graceful in appearance and useful for modern decorations, as well as for cutting purposes. **Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50, oz. \$5.**

Gerbera, Jamesoni Hybrids

Transvaal Daisy

These are beautiful, daisy-like plants, slender and graceful. Well-known greenhouse subjects that are largely used for conservatory decoration, but capable also of being grown in the open ground if the protection of a coldframe is given the plants over the winter months. We offer a splendid mixture of hybrids of this beautiful flower, embracing many shades of red, cerise, salmon, orange, yellow, and white. **Pkt. 50 cts.**

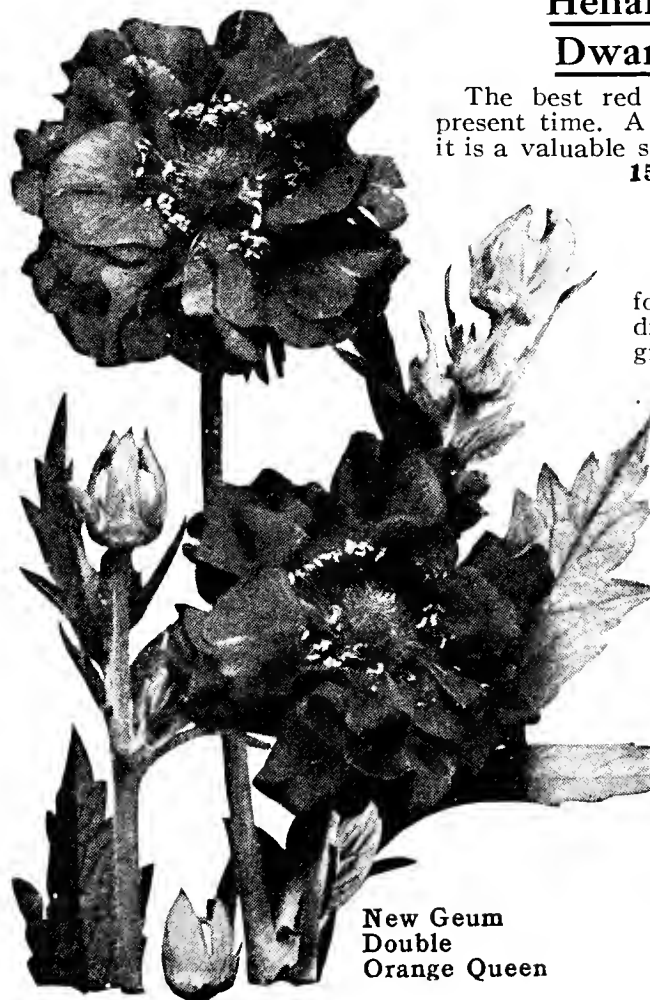
New Dwarf Godetias

We are pleased to offer two new varieties of this charming annual of easy culture. The plants are of distinct and graceful habit. They grow to the height of 1 to 1 1/2 feet and are excellent as a border plant.

Scarlet, Edged White. An attractive variety of dwarf single Godetia, very even in its growth and producing very large flowers. Scarlet with an edging of white. **Pkt. 15 cts., 1/4oz. 60 cts., oz. \$2.**

Dwarf Double Azalea-flowered,

Carmine. Highly recommended for pot culture. Pink, strikingly marked with darker shades. So free-blooming that when it is in full flower it is a veritable mass of bloom. May be called an annual Azalea. **Pkt. 15 cts., 1/4oz. 60 cts., oz. \$2.**



New Geum
Double
Orange Queen

Gentiana Hascombensis

In 1929 this plant received the Award of Merit of the Royal Horticultural Society of England and was also awarded the Cory Cup for the best garden-raised hybrid of that year. Started in heat in early spring, it should be in bloom from mid-July through to September. Plant out in a moist but well-drained place after danger of frost is over, either in sun or partial shade. The individual flowers of this lovely new Gentian are about 1 1/2 inches across and are of various shades of blue, slightly speckled with white at the base. Height 1 1/2 to 2 feet. **Pkt. 35 cts., 3 pkts. \$1.**

New Geum, Double Orange Queen

We are pleased to offer one of the best hardy perennials of recent introduction, a Geum of a shade midway between orange-scarlet and golden yellow. Very double, continuously blooming, this 18-inch high perennial should be in every rock-garden and hardy border, along with the varieties Mrs. Bradshaw and Lady Stratheden, described on page 45 of this Catalogue. **Pkt. 25 cts., 5 pkts. \$1.**

Gypsophila pacifica

A new addition to our perennials. The flowers of this variety are nearly as large as the annual varieties and of a beautiful shade of rose, coming into bloom after the Paniculata varieties have passed. **Pkt. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50.**

Helianthus (Sunflower)

Dwarf Maroon Prince

The best red Sunflower on the market at the present time. A dwarf type, from 2 to 3 feet high. It is a valuable subject for the annual border. **Pkt. 15 cts., 1/4oz. 60 cts., oz. \$2.**

Heliophila leptophylla

A new, half-hardy annual, valuable for growing in pots and for summer bedding. Seed may be sown in the open ground after danger of frost has passed, or earlier under glass. The plant grows about 18 inches high, and is simply covered with flowers of a clear bright blue with white centers. **Pkt. 25 cts.**

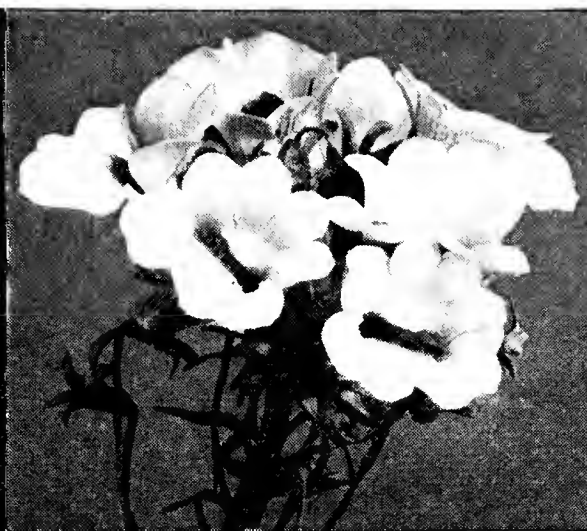
Kalanchoe

Globulifera Coccinea

A succulent plant, recommended for greenhouse and conservatory cultivation on account of the long period in which it continues to bloom, and its marvelous color. Sown in February or March, carried along in the open during summer, and again brought inside before frost, it will commence to bloom a year after sowing. The flower resembles a bouvardia in shape, but the color is a brilliant scarlet. It will be found a welcome addition to our winter flowering plants. **Pkt. 35 cts., 3 pkts. \$1.**



Lewisia Howelli



Nemesia



African
Alldouble
Orange
Marigold

New Annual Larkspur

For the past several years our growers have been trying to produce an Annual Larkspur with the habit of the Delphinium; and we are now able to offer eight fine colors in this type.

All these varieties have the characteristics of the Delphinium, that is, the base-branching form and the long flower-stalk, and we feel sure that they will in time supersede the old stock-flowered type.

La France. Salmon-pink—the best color for conservatory decoration. **Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.**

Exquisite Pink Improved. The delightful shade of pink meets exactly the florist's requirements. **Pkt. 25 cts., 1/4oz. 75 cts., oz. \$2.50.**

White Spire. A new, dazzling, pure white, double Larkspur, possessing the shape of the Delphinium. **Pkt. 25 cts., 1/4oz. 75 cts., oz. \$2.50.**

Blue Spire. Similar to the above except the color is intense deep Oxford blue. **Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.**

Lilac Spire. Beautiful shade of lilac so popular in Larkspurs. **Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.**

Carmine King. A beautiful shade of deep carmine-rose. **Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.**

Gloria. A rich tone of deep rose, with no trace of carmine. **Pkt. 25 cts., 5 pkts. \$1, 1/4oz. \$1.50.**

Peach Blossom. A clear light pink with no trace of salmon. **Pkt. 25 cts., 5 pkts. \$1, 1/4oz. \$1.50.**

Lewisia Howelli

A creeping, hardy perennial, forming a wide rosette of narrow, crinkled foliage, not exceeding 3 inches in height, and throwing up stems about 6 inches long, crowned with flowers of apricot streaked with rose. A rare and lovely plant which will be of admirable effect on rockeries. From seed sown in spring, the plants will bloom in the following year. The seedlings should be given a sunny and well-drained situation and must not be over-watered. **Pkt. 35 cts., 3 pkts. \$1.**

Lilies from Seed

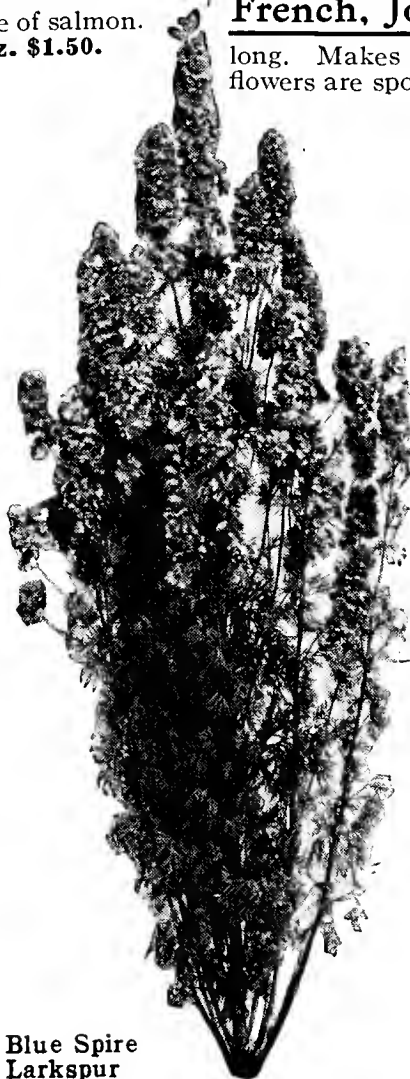
It is not generally known that most varieties of Lilies may be grown readily from seed and produce flowers the second year. In other words, they may be given the same treatment as other hardy perennials. We offer eight varieties of Lily seed on page 50, and would draw attention especially to the Regal Lily, *Lilium regale*, with its white flowers suffused with pink and its beautiful shade of canary-yellow at the center; not to forget its delightful, jasmine-like fragrance.

Lilium regale. **Pkt. 25 cts., 1/4oz. \$1.**

Plant Lily Bulbs for large blooms this year. We offer them on pages 120 and 121.

Mimulus, Red Emperor

Bright crimson-scarlet. This gem for the border or rock-garden will bloom in late June, if seed is sown in March, and will continue to flower throughout summer and autumn if seed-pods are removed. Emperor thrives in moist soil. A hardy perennial, flowering the same year if sown in February or March under glass. **Pkt. 35 cts., 3 pkts. \$1.**



Blue Spire
Larkspur

New Marigolds

Easily grown annuals, seeds of which may be sown in the open ground in spring, or earlier indoors. They are in bloom from June to October.

African Alldouble, Orange. Any strain of African Marigold that will come 70 per cent double is considered good—85 per cent is excellent. We are pleased to be able to offer a strain of Orange Marigold which has come 85 per cent double for the past three years. **Pkt. 25 cts., 1/4oz. \$1, 1/4oz. \$1.50, oz. \$5.**

African Alldouble, Lemon. Similar to the above, except in color, which is a beautiful shade of lemon-yellow. **Pkt. 25 cts., 1/4oz. \$1, 1/4oz. \$1.50, oz. \$5.**

French, Josephine. A tall, single type which is excellent for cut-flowers, because the stems are so long. Makes an excellent bedding plant also. The large golden flowers are spotted with brown. Height 3 feet. **Pkt. 15 cts.**

French, Robert Beist. The flowers are reddish brown, and the plants are literally covered with them all summer. As the plant grows but 12 inches high, it may well be used as an edging to a bed planted with the above types. **Pkt. 15 cts.**

Meconopsis regia

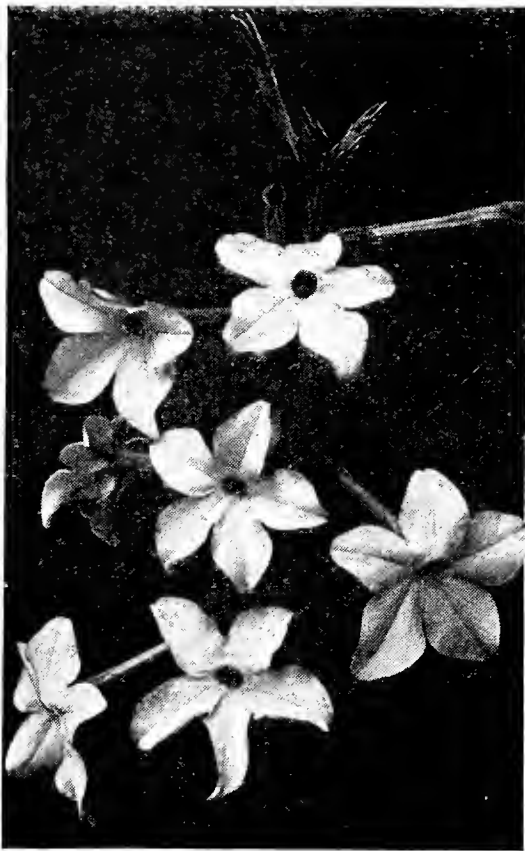
A new hardy perennial Meconopsis from western Nepal. During late autumn and early spring the plants have flat rosettes of very beautiful silvery leaves, striking and attractive in appearance. In spring, three to four stems are produced, bearing large, handsome, yellow flowers on short stalks. Considered the finest of the yellow-flowered types, this Royal Poppy gained high awards of the Royal Horticultural Society of Great Britain in 1931. **Pkt. 50 cts.**

Mina Lobata

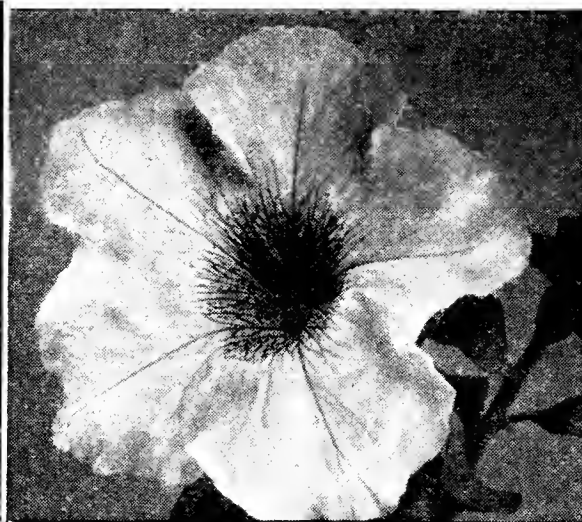
A striking climber, native of Mexico, that is treated as an annual in the latitude of the northern United States. Seed may be sown against a trellis, fence, or stump in spring, and by the time frost kills it in the autumn it will have trailed to a distance of 20 feet, and from July to September it will be covered with small trumpet-shaped flowers of a striking blood-red color. **Pkt. 15 cts., 4 pkts. 50 cts.**

A Fine New Nemesia, White Queen

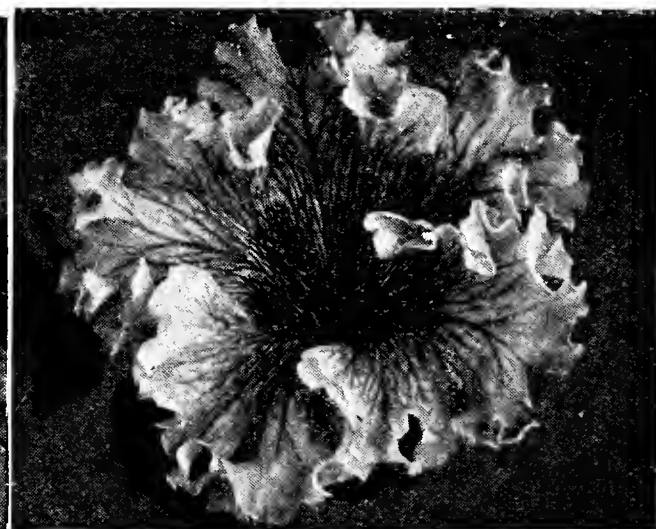
Half-hardy annual of the easiest culture. Sow seeds in the open ground when frost has gone in the spring, or sow indoors earlier. Very compact and of neat habit. When in flower, it is a perfect white pyramid. **Pkt. 25 cts.**



Nicotiana, Miniature White



Balcony Petunia



Petunia fimbriata caerulea

Nomocharis

Pardanthina. New and handsome liliaceous plant from western China, growing 2 feet high, with 12 or 13 nodding flowers standing almost vertically on the stem. The perianth is of a delicate rosy purple tint, slightly spotted externally, with

a deep maroon blotch at the base. **Pkt. 50 cts.**

Mairei. A sister plant to the foregoing, also from the Far East, and perhaps even more beautiful. The stems are 1½ to 2 feet high, bearing flowers about 3 inches across, of a satiny white, the outer segments being spotted reddish purple. The inner ones are equally spotted all over, having the edges frilled and crimped, with a central purple-black eye, the whole having somewhat the appearance of an odontoglossum. **Pkt. 50 cts.**

Two New Nicotianas

Crimson Bedder. Half-hardy annual. The shapely plants, about 15 inches high, are a mass of deep carmine-crimson flowers. Very striking in effect. **Pkt. 25 cts.**

Miniature White. An elegant, small-flowered, pure white, half-hardy annual species, delightfully scented. A fine bedding subject and an excellent pot-plant. **Pkt. 25 cts.**

Papaver nudicaule

We offer two new colors and modern mixtures of Iceland Poppies. These valuable hardy perennials will bloom the first season if sown in March or April under glass.

Tangerine. This is a deep tangerine-orange, with flowers of enormous size, twice as large as any other strain ever introduced. The flowers are borne on long, wiry stems and come true from seed. Excellent for cutting. **Pkt. 25 cts., 5 pkts. \$1, ½oz. \$1.50.**

Coonara Pink. A variety of *Papaver nudicaule* recently introduced from Australia. Rose-pink and salmon are blended to give us flowers of rare shades, while the petals are slightly ruffled. The flowers are borne on long wiry stems. A valuable addition to our hardy perennials. **Pkt. 25 cts., 5 pkts. \$1, ½oz. \$2, ¼oz. \$3.50.**

Fakenham Hybrids. You will be surprised at the wide range of color, wider than you thought possible with the Iceland Poppy, when you see this mixture in bloom. Brilliant and cheerful, it is a fine strain. **Pkt. 25 cts., ½oz. \$1, ¼oz. \$1.50.**

Sanford's Giant Strain. This strain is quite new and has been much talked about in Europe. The unusually long, extra-stout stems, bearing exceptionally large flowers, make this kind valuable. **Pkt. 25 cts., ½oz. \$1.50, ¼oz. \$2.50.**

The above hardy perennials will bloom the same season if sown in March or April under glass.

Papaver orientale, New Double Hybrids

We are pleased to be able to offer seed of a double Oriental Poppy, and we feel sure it will become a very popular perennial. One of its most valuable features is that it blooms very early, at a time when there is still a lack of cut-flowers. The plant itself is of bushy habit, with thick, feathery foliage, and bears numerous flowers in a glowing, very striking, orange-scarlet. When fully expanded, the flowers measure 6 inches across and are borne on stems 3 feet high. **Pkt. 50 cts., 5 pkts. \$2.**

Fine Bedding Petunias

Gottfried Michaelis. Daintily fringed, bright amaranth-red flowers, with dark throats! They measure 3 inches in diameter and cover dwarf, compact, foot-high plants. A wonderful bedding and border sort, strikingly beautiful, suitable also for baskets, window-boxes, and for growth in pots. **Pkt. 25 cts., 5 pkts. \$1.**

Pink Beauty. This is a grand acquisition to the single bedding Petunias. The flowers are very large, of handsome form, brilliant rose-pink, with throat lightly suffused yellow. Of very rapid growth and continuously in bloom. Many who have grown this Petunia in beds, borders, or rock-gardens proclaim it the best they have ever seen. **Pkt. 15 cts., ½oz. \$1.**

Fimbriata caerulea (Steel-Blue Fringed). This very attractive and unique fringed Petunia can be briefly described as a steel-blue, heavily veined, with a medium-large throat of deeper blue. The outer part of the throat has the appearance of being overlaid with veins of darker blue. It is very deeply fringed, and the most attractive light blue Petunia in cultivation. **Pkt. 25 cts., 5 pkts. \$1.**

New Balcony Petunia, Star of California

This is a magnificent new Petunia, bred with extra-long branches for window-boxes and hanging-baskets. The flowers are velvety violet, with a touch of crimson, starred with five pure white blotches. **Pkt. 25 cts., 5 pkts. \$1, ½oz. \$1.50.**

BALCONY FRINGED

Splendid, free-flowering type, either for bedding or window-boxes. The flowers average 3 inches across.

White Beauty. White.

Pride of Portland. Deep rose.

Pink King. Light rose.

Scarlet Beauty. Bright scarlet.

Any of the above, **pkt. 25 cts., 5 pkts. \$1**

Dwarf Petunia, Cockatoo

Only 8 inches high, the plant is one mass of medium-sized flowers of a deep purple-violet with regular shaped splashes of white around the margin. **Pkt. 25 cts., 5 pkts. \$1.**



Iceland Poppy, Coonara Pink

THIS valuable new race is the result of crossing Coltness Gem with the very best varieties of Charm (Miniature Peony-flowered). The original object of these crosses was the combination of the best qualities of both types, namely, the wonderful dwarf habit and freedom of Coltness Gem with the dainty, semi-double form and exquisite colorings of the Charms.

The hybrids are very precocious, blooming within three to three and one-half months from the time of sowing. They are extremely free flowering and embrace a most charming and very wide color-range; indeed, no two plants are exactly alike. In the main their form is semi-double, very much like the Charms, but smaller. They may be planted as closely as 18 to 20 inches apart, rarely exceed 24 inches in height, and require no stakes. Though primarily intended for bedding purposes, they make very fine cut-flowers indeed. Given the same treatment, they are more easy to raise from seed than asters or stocks, and the flowering period is very lengthy—from June to the first severe frost. This new race raises Dahlias to the level of the popular half-hardy annuals in respect to usefulness, ease of culture, and effectiveness, and for this reason they are certain to become very popular indeed. In our opinion there is no late summer- and autumn-flowering subject which is more effective, more easily grown, and less expensive than these hybrids.



Graceful New Race Dwarf Bedding Dahlias

Price: Pkt. 35 cts., $\frac{1}{8}$ oz. \$1, $\frac{1}{4}$ oz. \$1.50, oz. \$5

Marigold, GUINEA GOLD

One of the most popular of all the tall-growing Marigolds. Its beautiful deep color is greatly admired by all. A distinct type of Marigold with graceful, pyramidal habit, growing 2 to 2½ feet high, and producing 30 to 40 flowers of a brilliant shade of orange-gold. **Pkt. 25 cts., 1/8oz. 60 cts., 1/4oz. \$1.**



NEW DWARF DOUBLE NASTURTIUM

Golden Gleam SWEET-SCENTED

This beautiful Nasturtium was one of the outstanding novelties of last season. The plant forms a vigorous, large bush which throws out short runners, averaging 18 inches. The large, golden yellow flowers average 2½ to 3 inches across. A delightful addition to the Nasturtium family as a cut-flower on account of its glorious color and delightful fragrance. **Pkt. 15 cts., oz. 75 cts., 1/4lb. \$2.50.**



Scabiosa, Giant Loveliness



Primula malacoides Ericksoni



Salvia, Ostrich-Plume

Petunias for Pot Culture

S. & W. Co.'s New Giant-flowering Dwarf. This strain produces the largest flowers of any dwarf type of Petunia on the market today. They are of handsome shape with open throats, heavily marked and delicately veined. The plant is compact, strong and vigorous. **Pkt. 25 cts., 5 pkts. \$1.**

Primula malacoides Ericksoni

We offer the originator's stock of the E. E. Erickson strain of the Malacoides or Fairy Primrose. The size of the flower and the form of the plant is superior to the ordinary type. Essentially a florists' flower, this collection of fine hybrids includes Pink, Deep Pink, and Lavender-Pink. **Pkt. \$1.50.**

New Primula obconica, Glory of Farmingdale

This new development of *Primula obconica* is of special interest to those who cultivate Primulas under glass. Its flowers are a pleasing shade of bright rose, individually large, and well set on strong, sturdy plants. The grower will have few discarded plants with this strain, and we recommend it with every confidence as the best of its type. **Pkt. \$2.50.**

Ranunculus asiaticus, Palestine Strain

Originating from a wild, large-flowered *Ranunculus* found in Palestine, a variety of colors—reds, yellows, orange, etc.—have been produced; many are marked with green. The mixture includes singles, semi-doubles, and doubles, the flowers making the plants a blaze of color. A bed of these is a remarkable sight. **Pkt. 35 cts.**

Saintpaulia ionantha cordata

African Violet

This newest variety is distinguished by its very dark foliage, strong growth, and extra-large flowers of a deep lavender color. A beautiful greenhouse plant which should be treated similar to the gloxinia. **Pkt. 35 cts.**

Two Fine Salvias

Ostrich-Plume. (The Double Salvia). The habit of the bush resembles the Splendens type but, unlike Splendens, the bush is well covered with plumes of blossom. As a cut-flower, one of these scarlet plumes alone makes a delightful decoration. Comes 75 per cent true from seed. **Pkt. 25 cts., 5 pkts. \$1, 1/8oz. \$1.50.**

Farinacea, Blue Bedder.

A perennial sort which does well when treated as an annual. Seed sown in early spring will develop into plants which flower from July to October. Blue Bedder has a more compact form, with deeper blue flowers than the ordinary *S. farinacea*. Excellent for cutting. **Pkt. 50 cts., 1/8oz. \$2.50.**

New Annual Scabiosas

Grow freely from seed sown in the open ground in spring. They bloom from July to October.

Coral Rose. A miniature, strongly double, hardy annual sort that is neat and compact in growth. The individual flowers, however, are large and their color is a hue of coral between salmon and rose. They are produced very freely. Height 8 inches. **Pkt. 25 cts.**

Fiery Scarlet. Hardy annual. The brightest red Pin-cushion Flower yet raised, being a brilliant shade of scarlet-cerise, and very double. Height 18 inches. **Pkt. 25 cts.**

Giant Loveliness. A glorious new color in Annual Scabiosas. The blooms range through varying tones of soft delicate salmon-rose. This is undoubtedly the most beautiful Scabiosa ever introduced. It is unsurpassed as a cut-flower, having long, stiff stems and a delightful fragrance, but its crowning beauty is its wonderfully chaste salmon-rose color. **Pkt. 25 cts., 1/8oz. 60 cts., 1/4oz. \$1.**

Shasta. Pure white, with immense blooms from 3 to 4 inches in diameter. The stems are exceptionally long, and the variety is invaluable for cutting and as a bedding annual. **Pkt. 25 cts., 1/8oz. 75 cts.**

Peach Blossom. A lovely new shade of peach-blossom-pink. The flowers are large, borne on long stems, and are therefore excellent for cut bloom. Peach Blossom was "highly commended" by the Royal Horticultural Society of England. **Pkt. 25 cts., 1/8oz. 75 cts.**

Two New Perennial Scabiosas

Giant Hybrids of Scabiosa

caucasica. (Isaac House Strain.) Characteristic of this new type are larger flowers with heavier petals and on longer stems. In this mixture it is natural for delicate lilac and mauve to predominate, but pure white and several shades of dark blue also occur. These hybrids are splendid for the hardy border, and we also recommend them as a florists' cut-flower. **Pkt. 35 cts., 1/8oz. \$2.50.**

Columbaria. A splendid novelty from South Africa. While reminiscent of *Scabiosa caucasica*, it is entirely distinct, being quite dwarf in habit. It produces flowers 2 to 2 1/2 inches in diameter, on long, strong stems. Excellent for cut bloom for the florist. We offer it in two shades: **Pink, Lavender.** Each of these shades, **pkt. 35 cts., 1/8oz. \$2.50.**

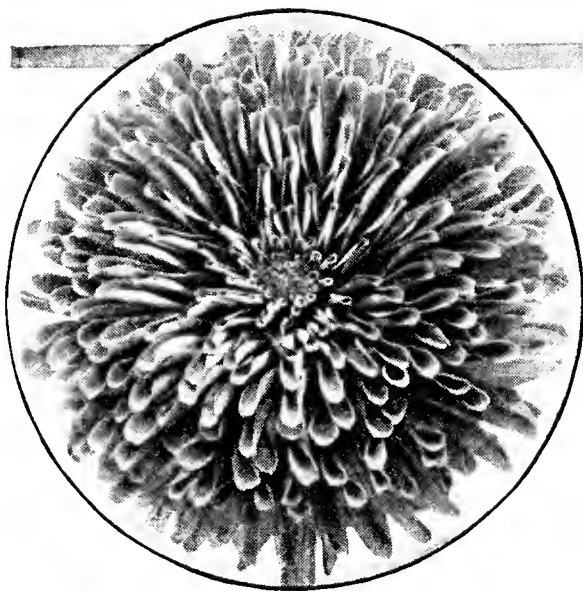
Statice sinuata atrocærulea

Kampf's Tall

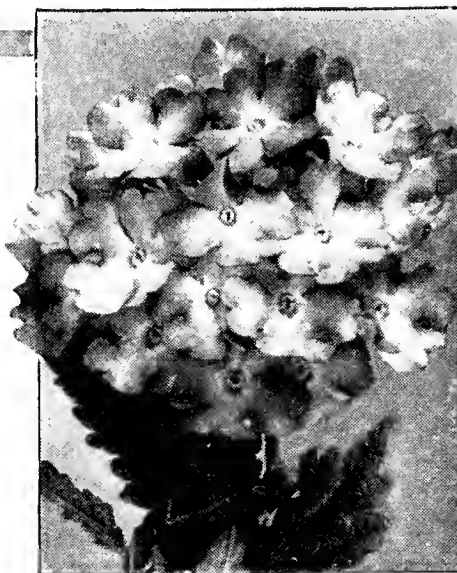
This most desirable hardy annual and Everlasting is a deep, shining shade of clear blue, large and fine, and is excellent for cutting. **Pkt. 20 cts.**



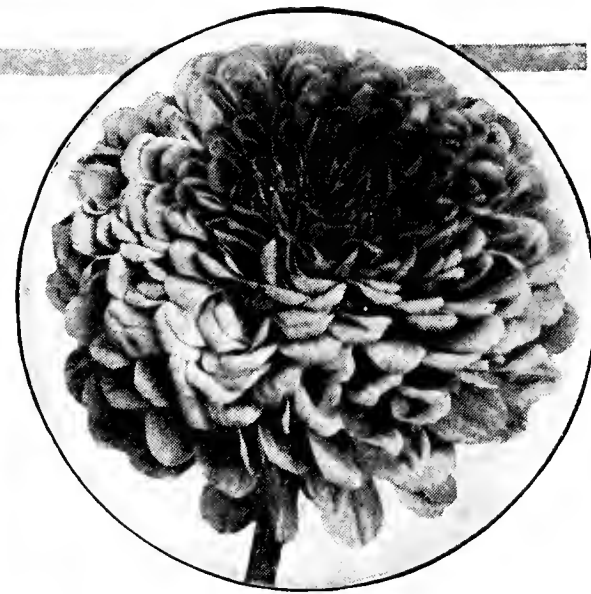
Ursinia. See page 24



Victory Quilled Zinnia



Giant-flowering Verbena



Dahlia-flowered Zinnia. See page 70

New Verbenas

Beauty of Oxford Hybrids

Hybrida Grandiflora Type

This beautiful, giant, hardy annual is a cross between the salmon, flesh, and coral Verbena, Luminosa and the rose-colored Beauty of Oxford. While following closely the color of the latter, it inherits a touch of salmon-pink from its other parent, which gives a lovely softening effect to the somewhat harsh coloring of Beauty of Oxford. The color shades from clear rose-pink to rose-red, making this the brightest rose-colored Verbena ever produced from seed. The individual florets measure over 1 inch in diameter, and will easily cover a silver half-dollar. The foliage is a dark cress-green. This beautiful subject will be welcomed as a distinct addition to the available colors in the large-flowered type. One may produce from seed those color effects hitherto only obtained by taking cuttings of Beauty of Oxford. **Pkt. 35 cts., 3 pkts. \$1.**

Mammoth Verbena, Lavender Glory

Hardy Annual

Here we have a new color, being true lavender, with a creamy white eye. The individual flowers, strikingly beautiful, are much larger than those found in Verbenas of the ordinary type. Distinctly fragrant and a flower of great merit. **Pkt. 25 cts., 5 pkts. \$1.**

A Miniature Verbena, Fireball

A dwarf, compact Verbena, growing about 6 inches high and literally covered with bright scarlet flowers. Blooms the entire summer, which makes it ideal for both pots and bedding purposes. **Pkt. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50.**

Giant-Flowering Verbenas

The strain we are offering is equal to our Mammoth Verbenas in the number of flowers to each truss, and has the added advantage in that the individual florets are larger. The plants attain a height of 1 foot, and, if sown outdoors early in May, may be had in bloom by July.

Salmon-Pink. Pure, even tone of salmon-pink.

White King. Pure white.

Royale. Royal blue, primrose-yellow eye.

Etna. Vivid scarlet with small yellow eye.

Luminosa. Shades of salmon, flesh, and coral on a ground of flame-pink.

Mixed. A mixture of all shades.

Each, pkt. 20 cts., 1/8oz. 60 cts., 1/4oz. \$1, oz. \$3.50

Trollius, Golden Queen

A hardy perennial of merit, growing 4 feet high and producing enormous, buttercup-like flowers 4 inches in diameter. Their color is rich gold. Award of Merit, Royal Horticultural Society of England. **Pkt. 35 cts., 1/8oz. \$2.**

We suggest a trial of the New Wilt-Resistant Asters. See page 15

Tithonia speciosa (Mexican Sunflower)

This half-hardy annual, seeds of which may be sown under glass and transplanted, or later in the open ground when danger of frost is over, is a shrub-like plant of enormous dimensions—8 feet high. The orange-colored, daisy-like flowers are 3 to 4 inches in diameter, on stems almost a yard long. A splendid and imposing subject for the back of a flower-bed or to place amid shrubs. **Pkt. 25 cts., 5 pkts. \$1.**

Ursinia

Anethoides. New Hybrids. The exquisite blending of colors of this annual will appeal to all. The plants grow about 2 feet high and carry a hundred or more fully expanded flowers at one time. All have petals of a delightful rich orange, but it is the central coloring surrounding the disc that shows wonderful variations. Their width varies from 1/8 to 3/4 inch, and tone from ruby-red to dark purple, spangled with distinctive jewel-like dots. From April-sown seed plants commence flowering in June and continue to September. **Pkt. 25 cts., 5 pkts. \$1.**

Pulchra. A smaller type, but 12 inches high; the entire effect of the plant is a most brilliant one, being covered with flowers of a rich deep orange. **Pkt. 25 cts., 5 pkts. \$1.**

Venidium fastuosum

Half-hardy annual for the garden or for growth under glass. Height 2 to 3 feet, with long, toothed leaves, and daisy-like, orange flowers, 3 inches across, with black centers. A most effective plant to be given the same general culture as celosia. **Pkt. 35 cts., 1/8oz. \$2.**

New Annual Wallflower, Extra-Early Double

If seed of this variety is sown in early spring, it will be in full bloom by June. The flowers are equal in size to those of the perennial double varieties, and they are delicately perfumed.

Canary-Yellow Golden Yellow Mixed Dark Brown Brown
Each, pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50

Viscaria, Blue Bouquet (Hardy Annual)

Of late years, Viscarias have advanced considerably in general favor as effective bedding plants. Blue Bouquet grows over 12 inches high, is erect and bouquet-like, and the flowers are a brilliant corn-flower-blue. **Pkt. 35 cts., 1/8oz. \$1.50.**

New Zinnia Types

Picotee. The flowers of this new type of Zinnias are not so large as those of the Giant Double varieties but are very effective. The petals are all well marked with a color distinct from that of the body of the flower. Plants attain a height of 1 1/2 feet. We offer them in a splendid mixture of colors. **Pkt. 25 cts., 1/4oz. \$1.**

Victory Quilled. This new type of Zinnia has petals similar in form to the cactus dahlia. Plants attain a height of 1 1/2 feet. We offer them in a good mixture of colors. **Pkt. 25 cts., 1/4oz. \$1.**

Pumila Picotee Delight. The plants are of compact growth and very floriferous. The petals are ruffled and curled, giving a light, dainty effect, and, in addition, each is beautifully picoteed, making a most attractive flower. The mixture includes salmon shades, cream, buff, biscuit, golden yellow, and lavender. **Pkt. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50.**



GENERAL LIST OF FLOWER SEEDS

In presenting this list of **Flower Seeds** for your attention, every care has been taken to secure **seeds** from sources of supply known to us, and from our experiences and from our tests at our **trial grounds**, to be of the highest possible merit. Our Flower Seeds are selected with an idea of superiority of strain and we handle only the highest possible types in each respective class.

We mail all Flower Seeds FREE OF COST to any Post Office in the United States.

ABUTILON (Flowering Maple)

Finest Mixed. Attractive coolhouse shrub and window-plant, and valuable for summer bedding. Perpetual-blooming, bearing lovely, bell-shaped flowers. Height 4 feet. Pkt. 25 cts., $\frac{1}{8}$ oz. \$1.

ABRONIA

Verbena-like plants, very fragrant, especially toward evening. Charming trailers for vases, rockwork, etc. Half-hardy annuals.
Umbellatum. Rosy pink. Height 9 inches. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

ACANTHUS (Bear's Breech)

Mollis latifolius. Hardy perennial. Grows 3 feet high, and has rose-colored flowers in August and September. Pkt. 15 cts., oz. 75c.

ACHILLEA (Hardy Perennial)

Ptarmica, The Pearl (Sneezewort). Small, double, white flowers. Height 2½ feet. Pkt. 25 cts., $\frac{1}{8}$ oz. \$1, $\frac{1}{4}$ oz. \$1.50.
Filipendula. Yellow. Height 3 feet. Pkt. 15 cts., $\frac{1}{8}$ oz. 75 cts., $\frac{1}{4}$ oz. \$1.25.
Millefolium roseum. Pink. Height 1½ feet. Pkt. 15 cts., $\frac{1}{8}$ oz. 50 cts., $\frac{1}{4}$ oz. 75 cts.

ACONITUM (Monkshood or Wolfsbane)

Wilsoni. The most handsome of the Monkshoods, and especially useful on account of its late blooming season. Its long spikes of beautiful, light blue flowers are produced from summer until November. Hardy perennial. Height 5 feet. Pkt. 25c., $\frac{1}{8}$ oz. \$1.
Napellus. A hardy perennial producing long spikes of curiously shaped blue flowers. Well adapted for planting among shrubbery. Height 3 to 5 feet. Pkt. 15 cts., $\frac{1}{8}$ oz. 60 cts., $\frac{1}{4}$ oz. \$1.
Napellus roseus. A beautiful lavender-pink form. Pkt. 15 cts., $\frac{1}{8}$ oz. 60 cts., $\frac{1}{4}$ oz. \$1.
Fischeri. Dwarf; deep blue. Height 1½ feet. Pkt. 15 cts., $\frac{1}{8}$ oz. \$1.
Finest Mixed. All colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 60 cts., $\frac{1}{4}$ oz. \$1.

ADLUMIA (Mountain Fringe)

Cirrhusa. A very graceful, hardy, biennial climber. The foliage somewhat resembles the maidenhair fern. Flowers are tube-shaped, white or purplish, reminding one of the bleeding-heart and entirely cover the plant. For trellises or old stumps of trees. Flowers first season from seed, if sown early. Pkt. 15 cts., $\frac{1}{8}$ oz. \$1.

ADONIS

Aleppica. Brilliant blood-red flowers. Annual. Height Pkt. $\frac{1}{8}$ oz.
1½ feet. \$0 25 \$1 50
Vernalis (Spring Adonis). Hardy perennial, with large, yellow flowers in the early spring. Height 1 foot.... 10 50

AGERATUM (Floss Flower)

One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, these flowers are not likely to be spoiled by rain, nor do the colors fade out. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May.

Blue Perfection. Large heads of deep blue flowers produced in abundance. Fine for cutting. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.
Little Blue Star. A very dwarf variety used largely for edging, growing about 4 to 5 inches high; bright blue flowers. Pkt. 25 cts., $\frac{1}{8}$ oz. \$1, $\frac{1}{4}$ oz. \$1.50, oz. \$5.
Little Dorrit, Blue. This variety grows about 6 inches high; flowers bright blue. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.
Little Dorrit, White. Same in habit as preceding, only white. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.
Mexicanum Capella. Distinct growing about 9 inches high; flowers rosy chamois. Pkt. 15 cts., 2 pkts. 25 cts., $\frac{1}{8}$ oz. \$1.50, $\frac{1}{4}$ oz. \$2.50.



Ageratum

AGATHÆA (Blue Daisy)

Cœlestis. A tender perennial, with beautiful blue flowers. Fine pot plant for winter blooming in conservatories. Height 1 foot. Pkt. 15 cts., 2 pkts. 25 cts., $\frac{1}{4}$ oz. 75 cts.

AGROSTEMMA

Coronaria (Rose Champion; Mullein Pink). Hardy perennial. Flowers dark blood-red and very large; foliage silvery. Height 2 feet. June to September. **Coronaria alba.** White. **Coronaria, Mixed.** **Flos-Jovis.** Pink. Height 1 foot. Any of the above, pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

ALYSSUM

Little Gem (*A. maritimum*). Plants grow only 3 to 4 inches high, and each plant completely covers a circular space of 12 to 20 inches. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.50. **Sweet Alyssum** (*A. Benthami*). The well-known fragrant white variety. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50. **White Carpet** (*A. compactum procumbens*). Pure white; grows only 2 to 3 inches high and flowers profusely. Pkt. 10c., $\frac{1}{4}$ oz. 30c., oz. \$1. **Lilac Queen.** Furnishes an abundance of lilac-colored flowers. As an edging plant, it makes a fine combination with White Carpet. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1, $\frac{1}{4}$ lb. \$3.50. **Saxatile compactum.** Hardy perennial. Excellent rock or border plant, bearing bright yellow flowers from April to June. Height 9 inches. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

AMARANTHUS

Brilliant-foliaged annuals, growing from 3 to 5 feet high, some of the varieties bearing curious racemes of flowers. All are useful in borders of tall plants, or for the centers of large beds. They thrive best in a hot, sunny location and not too rich soil.

Caudatus (Love-Lies-Bleeding). Blood-red; drooping. Pkt. 10 cts. **Cruentus** (Prince's Feather). Dark red, feathery flowers. Pkt. 10 cts. **Sunrise.** Foliage bronzy crimson, each branch terminating with a tuft of bright scarlet-carmine leaves. Pkt. 15c., 2 pkts. 25c., $\frac{1}{4}$ oz. \$1. **Tricolor** (Joseph's Coat). Leaves red, yellow, and green. Pkt. 10 cts. **Molten Fire.** Best and showiest of all Amaranthus. Bronze foliage tipped with a head of fiery scarlet. Pkt. 25 cts., $\frac{1}{4}$ oz. \$1.



Border of Alyssum, Little Gem

ANEMONE

Chrysantha. Considered the best strain in cultivation. Flowers are double and the mixture contains a complete range of colors. Pkt. 25 cts., $\frac{1}{8}$ oz. 75 cts., $\frac{1}{4}$ oz. \$1.25. **Single Giant de Caen** (Windflower). Half-hardy perennial. The giant French Anemone. Excellent for cutting. 9 inches. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts. **St. Brigid** (Irish Anemone). A great variety of colors. Pkt. 25 cts., $\frac{1}{4}$ oz. \$2.

ANCHUSA

Capensis. Biennial. Flowers azure-blue. 1 $\frac{1}{2}$ feet. July and August. Pkt. 10c., $\frac{1}{4}$ oz. 50c. **Italica, Dropmore Variety.** A hardy perennial whose bright blue, forget-me-not-like flowers are borne on graceful stems during the entire season and late into the fall. It is a great improvement over the existing varieties. Height 4 to 5 ft. Pkt. 15c., $\frac{1}{4}$ oz. \$1. **Opal.** A very beautiful hardy perennial, similar in all respects to Dropmore, but the flowers are pale blue. Pkt. 25 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.50. **New Annual, Blue Bird.** A dwarf, compact type, 18 inches high, with vivid indigo-blue blossoms. Flowers two months after sowing seed. Pkt. 25 cts., $\frac{1}{8}$ oz. 60 cts., $\frac{1}{4}$ oz. \$1.

ANTHEMIS

Kelwayi (Marguerite). Hardy perennial. Large, daisy-like yellow flowers; good for cutting. Height 2 feet. July to September. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50. **Nobilis** (Chamomile). White. 2 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts. **Tinctoria.** Fine-cut foliage, with marguerite-like yellow flowers from June to October. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

AQUILEGIA (Columbine)

The Aquilegias are fine, free-flowering, hardy border plants. Seed may be sown in the open ground in early spring or early summer.

S. & W. Co.'s Giant Long-spurred. The seed of this splendid strain of Columbine is grown for us by a specialist known for his painstaking efforts to produce a superior class. The plants are of strong, thrifty growth, are perfectly hardy, and bear long-spurred flowers of large size.

Blue Shades. A splendid selection of all shades from light to dark blue.

Pink Shades. Contains the various tones from light pink to darkest rose.

Scarlet Shades. All the colors of light scarlet, dark scarlet, and crimson.

Mixed Shades. Including all shades from pure white to pink, rose, red, yellow, crimson, blue, and various bi-colored flowers of superb quality and form.

Each, pkt. 25 cts., $\frac{1}{8}$ oz. \$1.50, $\frac{1}{4}$ oz. \$2.50, oz. \$7.50

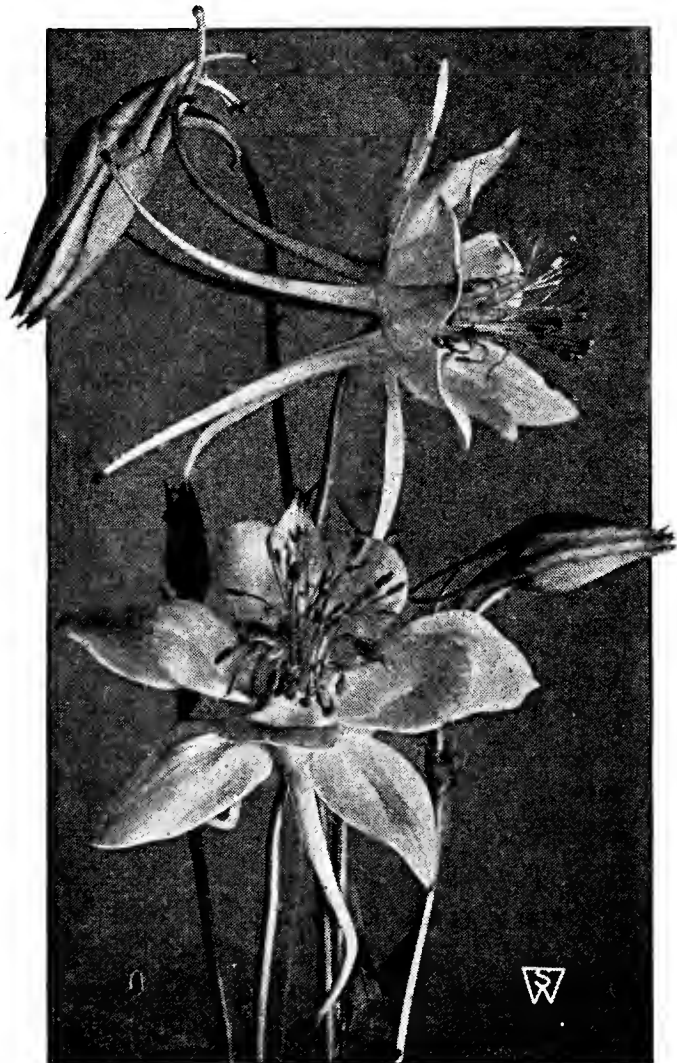
Crimson Star. Blood-red, center petals white. Pkt. 35 cts., 3 pkts. \$1.

Cœrulea. Violet-blue and white. About 2 feet. Pkt. 15 cts., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.

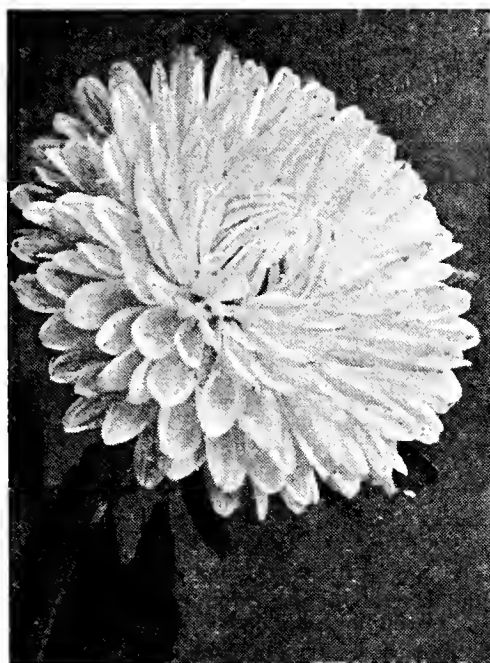
Chrysantha. Canary-yellow. About 3 feet. Pkt. 10c., $\frac{1}{8}$ oz. 75c., $\frac{1}{4}$ oz. \$1.25.

Californica hybrida. Beautiful flowers, principally yellow and orange shades. Pkt. 15 cts., $\frac{1}{8}$ oz. \$1, $\frac{1}{4}$ oz. \$1.50.

Rose Queen. Rose shades with white centers and yellow anthers; beautiful. 3 feet. Pkt. 25 cts., $\frac{1}{8}$ oz. \$1, $\frac{1}{4}$ oz. \$1.75.



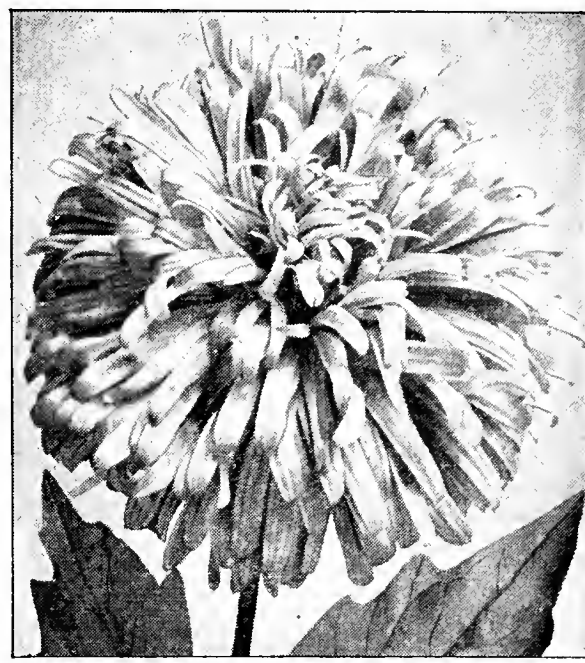
Long-spurred Aquilegias



Queen of the Market Aster



Early Royal Aster



Improved Crego Aster

S. & W. CO.'S SUPERB ASTERS

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil enriched with a liberal quantity of Bone Dust No. 2, and an addition of air-slaked lime, and we do not advise growing them on the same ground two years in succession; it is better to change each season. For early flowering, seeds should be started in a sunny window, hotbed or coldframe in April and transferred to their place in the garden as soon as danger of frost has gone by. For August (midseason) and September (late) sow seeds outside in finely prepared ground in May, thinning out to 1 foot in the rows and 2 feet between. With the above prescribed treatment and frequent cultivation of plants to insure a steady growth until flowering, excellent large blooms with long stems can be obtained.

For the purpose of aiding our patrons in making easy selections of the kind of Asters they desire to grow, we are listing the varieties under the headings Early, Midseason, and Late. The early sorts, such as Early Wonder, Queen of the Market, Lavender Gem, and Early Royal, begin blooming in July, followed by the midseason varieties, such as the Kings, Improved Cregos, California Giants, White Perfection and the Astermums. Then come the late-flowering varieties, such as S. & W. Co.'s Late Branching, The Beauty Type, Autumn Glory, Heart of France, and Pink Enchantress which come into bloom from the end of August on through September into October. It is quite easy, therefore, with a little care in the selection of the varieties, to have Asters in bloom from early July to hard frost.

EARLY-BLOOMING ASTERS

Early Wonder. We consider this the earliest Aster in our list, flowering in early July from seeds sown in the open ground at the end of April, or, if sown indoors in March, can be had in bloom before the close of June. The flowers are of good size, quite double, and are borne on good, long, stiff stems, which, added to their extremely early flowering, makes them of great value for cutting.

Carmin-Rose	White	Light Rose
Light Blue	Dark Blue	Mixed

Any of the above colors, or mixed, pkt. 15 cts., 1/4oz. 75 cts.

COLLECTION: One pkt. each of above 5 colors, 50 cts.

Queen of the Market. This well-known, early-flowering Aster is of a branching habit, growing about 1 1/2 feet high, and comes into bloom directly after Early Wonder.

White	Crimson	Flesh-Pink
Rose	Dark Blue	Light Blue
	Mixed	

Any of the above colors, or mixed, pkt. 10 cts., 1/4oz. 50 cts.

COLLECTION: One pkt. each of above 6 colors, 50 cts.

Early Royal. (Branching Type.) This type of Aster is of recent development and is best described as an early-flowering form of our Superb Late Branching Aster, having all the good qualities of the latter, but coming into bloom in early August.

White	Rose-Pink	Shell-Pink
Lavender	Purple	Mixed

Any of the above colors, or mixed, pkt. 15 cts., 1/4oz. 75 cts.

COLLECTION: One pkt. each of above 5 colors, 50 cts.

Dwarf Queen. A beautiful strain of early, dwarf-growing Aster, 14 inches high, especially adapted for pots or for the border.

Flesh Color	Crimson	Dark Blue	Mixed
Brilliant Rose	Light Blue	White	

Any of the above colors, or mixed, pkt. 25c., 1/4oz. \$1.50, oz. \$5.

MIDSEASON-BLOOMING ASTERS

Improved Crego, or Ostrich-feathered. (Improved Comet Type.) This is considered to be the finest and largest of all the Comet Asters. The flowers are borne on long, stiff stems and are of a fluffy character, frequently measuring 5 inches and over in diameter. They are splendid for cutting purposes on account of their good keeping qualities.

White	Purple	Lavender	Crimson
Azure-Blue	Pink	Deep Rose	Mixed

Any of the above colors, or mixed, pkt. 15 cts., 1/4oz. 75 cts.

COLLECTION: One pkt. each of above 7 distinct colors, 75 cts.

The Six King Asters. This magnificent class of Asters is distinct from all others in the character of the flowers. The long, narrow petals are folded lengthwise, appearing almost as though quilled, and the flowers are of great size and substance, lasting longer when cut than any other class. Their season for blooming is just after the earliest varieties and before the Late Branching types.

Lavender King	Violet King	Rose King	Mixed
Pink King	White King	Crimson King	

Any of the above colors, or mixed, pkt. 15 cts., 1/4oz. 75 cts.

COLLECTION: One pkt. each of above 6 distinct colors, 75 cts.

Astermums. A splendid new race of American-raised Asters selected from the Comet Type. The plants are of upright growth frequently having twelve to fifteen strong, sturdy stems 1 1/2 to 2 feet long, each carrying enormous flowers of splendid form, the petals completely covering the center so as to give the impression of one of the large Japanese chrysanthemums. This Aster has been grown with excellent success this past season.

Snow-White	Rose-Pink	Lavender	Mixed
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Any of the above colors, or mixed, pkt. 15 cts., 1/4oz. 75 cts.

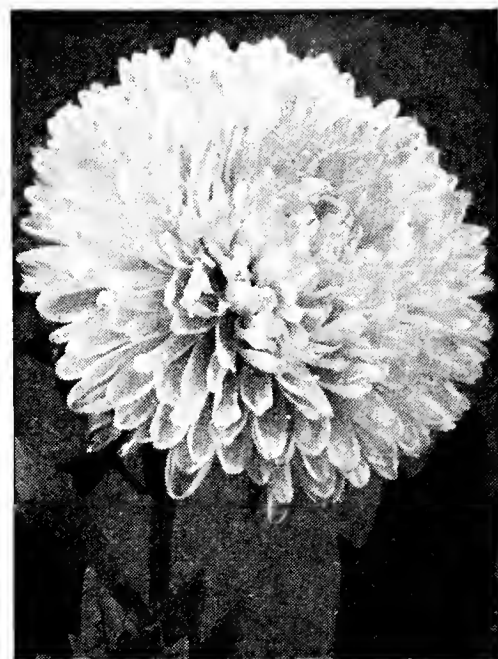
COLLECTION: One pkt. each of above 3 colors, 35 cts.



Astermum. See page 27



Late Branching Aster



Beauty Aster

S. & W. CO.'S SUPERB ASTERS

LATE-BLOOMING ASTERS

S. & W. Co.'s Late Branching Asters

Although we placed this variety on the market only a few years ago, today every florist has a fine stock of the flowers in his window just before the chrysanthemum comes in; and it is often mistaken for the chrysanthemum, which it so much resembles. The flowers are of extraordinary size—much larger than other varieties—and stand erect on long, graceful stems, well above the foliage; flower-stems 15 to 20 inches long. Grand for cutting. Plants extra large and of strong growth.

Pure White
Shell-Pink

Rose-Pink
Lavender
Mixed

Purple
Crimson

Any of the above colors, or Mixed, pkt. 10 cts., 1/4oz. 50 cts.

COLLECTION: One pkt. each of above 6 colors, 50 cts.

Beauty Asters

This is a recently developed late-flowering strain, coming into bloom late in September and being at its best through October. The plants grow nearly 3 feet high and bear their very large, densely covered flowers on long, strong stems. Excellent for cutting.

Light Blue
Light Pink

Carmin-Rose
White

Purple
Mixed

Any of the above colors, or Mixed, pkt. 15 cts., 1/4oz. 75 cts.

COLLECTION: One pkt. each of above 5 colors, 60 cts.

Single Comet Asters

This type of Asters has met with considerable demand recently. From a decorative point of view the possibilities are immense. Their large blooms, often measuring 5 to 6 inches across, make them truly conspicuous.

White
Light Blue

Light Rose
Dark Blue

Scarlet
Mixed

Any of the above colors, or Mixed, pkt. 15 cts., 1/4oz. 60 cts.

COLLECTION: One pkt. each of above 5 colors, 60 cts.

Giant California Sunshine Asters

The Most Beautiful Aster in the World

This new strain of supremely beautiful Asters is the result of a direct cross between our now well-known California Giants and the dwarf, much-branched Sunshine type, hence the name. Plants of this new race grow 3 feet high and bear blossoms on long, stiff stems, admirable for cutting. The individual blooms are enormous, 4 to 5 and 6 inches in diameter. The grace and beauty of build, with cushiony centers of tubular bifurcate petals and the rim of exquisitely poised out-guard petals surrounding the central disk, make for a lace-like perfection and daintiness of form and contour that must appeal to the most æsthetic taste.

We offer this magnificent strain of Asters in Mixed Colors of Enchantress Pink, Appleblossom, Deep Rose, Blue, and Lavender, all with disk of lovely light yellow. Pkt. 50 cts., 1/8oz. \$1.50, 1/4oz. \$2.50, 1/2oz. \$4, oz. \$7.50.

MISCELLANEOUS ASTERS

Aurora. This Aster is an innovation and quite different from any other. The center of the flower is bright yellow, with an outer circle of delicate blue, forming a very striking contrast. The plants are of robust growth, averaging 2 feet in height. Pkt. 15 cts., 1/4oz. \$1.25.

Heart of France. This recent introduction is the largest flowering of the very dark red sorts. The plants grow about 2 feet high, are nicely branched, and bear their long, rich, deep ruby-red flowers on long, strong stems. Blooms with the late-blooming sorts. Pkt. 25 cts., 1/4oz. \$2.

Lavender Gem. Truly a gem and easily the finest early lavender. In the full, double flower, the feathery effect of the ostrich-feathered type is enhanced by the fact that it bears long, partly tubular florets that are irregularly cut and slashed, resembling ragged chrysanthemums. Pkt. 15 cts., 1/4oz. \$1.25.

Peerless Yellow. A splendid new Aster with flowers sometimes 5 inches across. It has a border of curled, recurved, strap-shaped florets of pure white; the center consists of recurved and incurved disc-florets of deep yellow. The whole effect is novel and beautiful. Pkt. 15 cts., 1/4oz. \$1.25.

Moreton Pink. This beautiful Aster is a beautiful shade of flesh or Malmaison pink, and is very desirable. It blooms about a week earlier than Autumn Glory. The flowers are full, double, of medium length, and very broad. A splendid variety for cutting. Pkt. 15 cts., 1/4oz. \$1.25.

Ball's White. Finest midseason white Aster in cultivation. The flowers are 4 inches in diameter and exquisite in form, and the plants are taller than those of the late upright Asters. When first open the entire flower is whorled, producing a charming effect; the broad petals are slightly folded lengthwise, making them appear rather narrow. The plants are extremely vigorous, and they carry about twelve large flowers on strong stems free from side branches. Pkt. 15 cts., 1/4oz. \$1.25.

Hardy Perennial Asters

Michaelmas Daisies

Single, summer and fall-flowering, hardy herbaceous plants which thrive in any good garden soil.

Alpinus. Large bluish purple flowers in May and June. Good rock-garden plant. Height 9 inches. Pkt. 15 cts., 1/8oz. \$1, 1/4oz. \$1.50.

Alpinus albus. White form of above. Pkt. 15c., 1/8oz. \$1, 1/4oz. \$1.50.

Amellus bessarabicus. Large, rich violet flowers in profusion in August and September. Height 2 feet. Pkt. 10 cts., 1/8oz. \$1.50.

Novæ-angliæ, Mixed. Good-sized flowers in September and October. Height 4 feet. Colors, Violet-Purple, Reddish Crimson, and Pink. Pkt. 10 cts., 1/8oz. \$1, 1/4oz. \$1.50.

Subcæruleus. Compact, tufted plants with solitary, glowing purple flowers 2 to 3 inches across, on 18-inch stems, in June and July. Pkt. 25 cts., 1/8oz. \$1.50.

ANTIRRHINUM (Snapdragon)

The Tall varieties are seen to best advantage in long borders, making splendid backgrounds, while the Half-High types are suitable for bedding. Seed may be sown in the open ground early in May and be had in bloom in summer, but it is best to start the plants indoors in pots or flats or in a frame in March and transplant.

Giant-flowered Half-High Varieties Height about 1½ feet

- ***Apricot Queen.** Pink, white tube.
- ***Carmin Queen.** Rose-carmin.
- Empress.** Rich velvety crimson.
- Fascination.** Pearly pink self.
- ***Fawn.** Rose and gold.
- ***Firebrand.** Scarlet, with yellow lip.
- ***Golden Queen.** Rich, pure yellow.
- ***Purity.** Pure white.
- Mauve Queen.** Lilac-mauve.
- Rose Dore.** Rose suffused orange.
- Named varieties, each, pkt. 15c., ¼oz. 75c.; mixed, pkt. 10c., ¼oz. 60c.
- COLLECTIONS: { One pkt. each of above 10 fine varieties, \$1
- { One pkt. each of 6 varieties marked *, 75 cts.

Giant-flowered Tall Varieties Height about 3 feet

- Harmony.** Terra-cotta-orange, shaded rose.
- Rose King.** Deep rose self.
- Queen Victoria.** White.
- Rose.** Beautiful rose-pink.
- Scarlet.** Bright scarlet.
- Yellow.** Rich golden yellow.
- Named varieties, each, pkt. 15c., ¼oz. 75c.; mixed, pkt. 10c., ¼oz. 60c.
- COLLECTION: One pkt. each of above 6 distinct colors, 75 cts.

Forcing Antirrhinums for Greenhouse Use

- Afterglow.** New large-flowering bronze. Pkt. \$1.25, 3 pkts. \$3.50, 6 pkts. \$6.75.
- Ceylon Court.** New early-flowering yellow. Pkt. \$1.25, 3 pkts. \$3.50, 6 pkts. \$6.75.
- Rose Queen.** Best new dark pink. Pkt. \$1.25, 3 pkts. \$3.50, 6 pkts. \$6.75.
- Orlando** (bronze), **Helen** (salmon), **Jennie Schneider** (Columbia rose-pink), **Geneva Pink**, **Penn-Orange.** Any of these varieties, pkt. \$1, 3 pkts. \$2.50.
- Judd's New Early Light Pink**, **Keystone** (pink), **White Rock.** Any of these varieties, pkt. 75 cts., 4 pkts. \$2.50.
- Silver Pink**, **Philadelphia Pink**, **Nelrose** (deep pink). Pkt. 50 cts., 5 pkts. \$2.

Midget Antirrhinum Height 6 inches

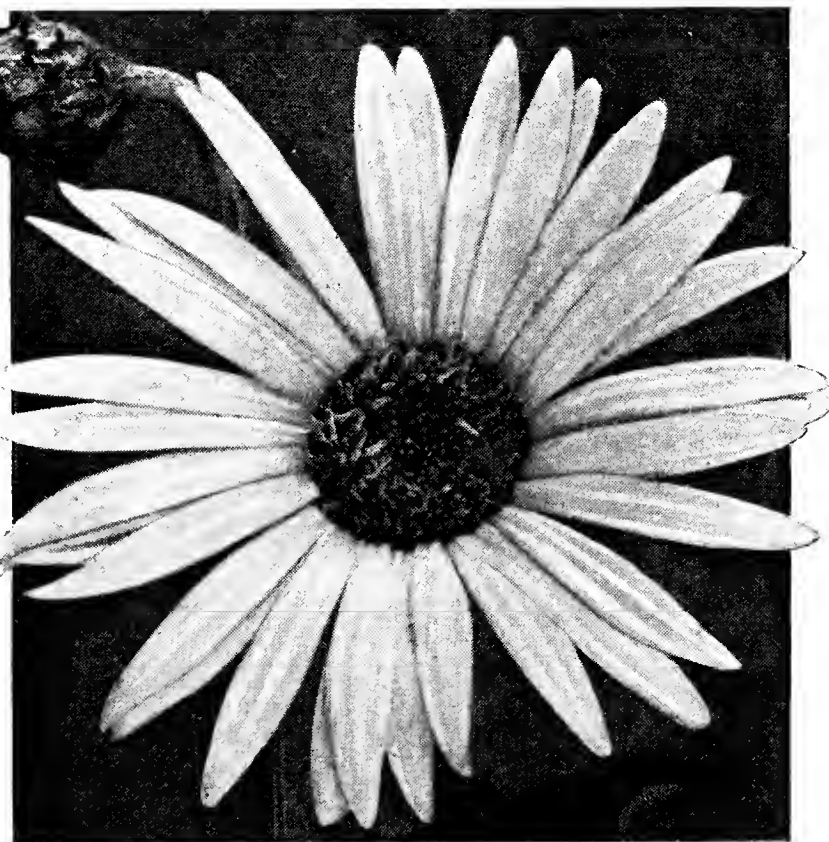
- Rock Hybrids.** Compact plants for edgings and the rock-garden in a wonderful mixture of colors. Blooms early and continuously. Pkt. 25 cts., ¼oz. \$1.

Arenaria (Sandwort)

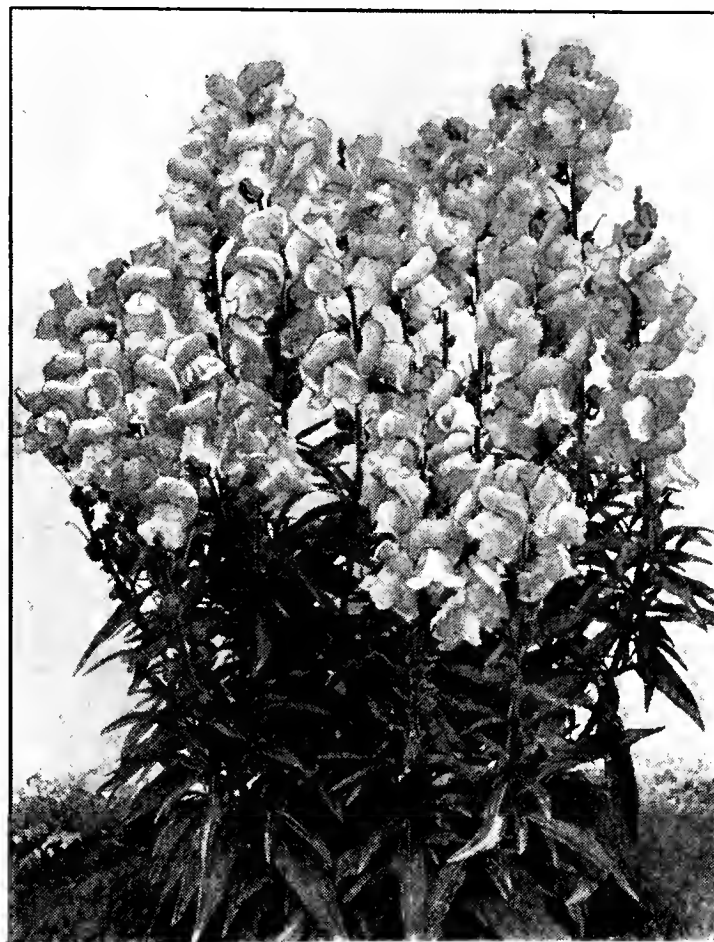
- Montana.** A dwarf hardy perennial for the rock-garden or for edging. A trailing carpet of green covered with white flowers. Height 6 inches. Pkt. 25 cts.

Arctotis Grandis (African Daisy)

- Grows 2 to 3 feet high. Its flowers are large and showy, white on the upper surface, lilac-blue beneath. Start it indoors or in the open ground. Half-hardy annual for a sunny place. Pkt. 15 cts., ¼oz. 75 cts.



Arctotis Grandis



Antirrhinum, Fawn

Arabis (Rock Cress)

- Alpina.** Splendid for edging and rockeries. The spreading tufts are covered with a sheet of white flowers as soon as snow disappears. Pkt. 15 cts., ¼ oz. 50 cts.
- Alpina rosea.** Similar to the above, except in color which is a bright rose. Pkt. 25 cts., 5 pkts. \$1, ¼oz. \$2.

Asclepias

- Curassavica.** Winter-blooming greenhouse plant with showy orange flowers. Height 2 feet. Pkt. 25 cts.
- Tuberosa** (Butterfly Weed; Pleurisy Root). Hardy perennial with orange flowers. Height 2½ feet. Pkt. 15 cts.

Argemone (Mexican or Prickly Poppy)

- Mexicana.** Sturdy plants. Height 3 feet. The ornamental spiny foliage has a clear silvery mid-rib. Flowers are poppy-like, over 3 inches across, yellow to creamy white. Blooms all summer. Pkt. 10 cts., ¼oz. 50 cts.
- Platyceras rosea.** A recent introduction similar in habit of growth and foliage to the above with rich ruby-rose flowers. Pkt. 15 cts., ¼oz. 50 cts.

Armeria (Sea Pink)

- Dwarf plants that will thrive almost anywhere. Fine for the alpine garden or for use as edging plants. Hardy perennials. Height 9 inches.
- Formosa.** Pink. Pkt. 15 cts., ¼oz. \$1, ¼oz. \$1.50.
- Lauchiana.** Double; rose-crimson. Pkt. 25 cts., ¼oz. \$2, ¼oz. \$3.50.
- Maritima.** Red. Pkt. 25 cts., ¼oz. \$2, ¼oz. \$3.50.

Arnebia (Arabian Primrose; Flower of the Prophet)

- Cornuta.** An easily grown annual, 2 feet high, and producing yellow flowers spotted with brown. Pkt. 10 cts.

Artemisia (Sage Bush)

- Argentea.** Plants grow 1 to 2 feet high, with white, silky foliage. Excellent for cutting. August and September. Pkt. 25 cts., 5 pkts. \$1.
- Sacrorum** (Summer Fir). A stately, leafy annual, spring-sown; height 4 feet. Grown for its pyramidal form and ornamental foliage. Pkt. 10 cts.
- Stelleriana** (Old Woman). Silvery white foliage plant for the hardy border. Height 2 feet. Pkt. 25 cts., ¼oz. \$1, ¼oz. \$1.50.

Asparagus

- Plumosus nanus.** A graceful pot-plant for house or conservatory. Finely cut foliage. Pkt. 25 cts., 100 seeds \$1, 500 seeds \$3.50, 1,000 seeds \$5.
- Sprengeri.** Drooping foliage, adapted for hanging-baskets or cutting. Pkt. 25 cts., ½oz. \$1, oz. \$1.50.



Double Camellia-flowered Balsam

DOUBLE CAMELLIA-FLOWERED BALSAM (Lady's Slipper)

An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored, double flowers in the greatest profusion; of easiest culture; succeeds in a good, rich soil. Tender annual. 2 feet. Start the seed indoors in April, or sow out-of-doors in May. When specimens are wanted, plant at least 18 inches apart; splendid when grown in pots.

	Pkt.	1/4oz.
White Perfection. Large; double; white.....	\$0 10	\$0 50
Scarlet King. Glowing, fiery scarlet; large, double flowers.	10	50
Salmon Queen. Deep rose-pink; large, double flowers.	10	50
Lilac Gem. Beautiful pale lilac.....	10	50
Purple King Double; rich purple.....	10	50
Primrose Gem. Double; beautiful primrose; the best yellow variety to date.....	10	50

COLLECTION: 1 pkt. each, 6 named varieties, 6 pkts., 50 cts.

S. & W. Co.'s Double, Mixed. A mixture of selected self-colors as well as beautiful, spotted, blotched and striped varieties. **Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.**

ASPERULA (Sweet Woodruff)

Odorata. Hardy perennial. Handsome creeping plant, with deep green, whorled foliage and pretty white flowers. Especially useful for carpeting in shady situations. Height 6 inches. June and July. Pkt. 10 cts., 1/4oz. 50 cts.

AUBRIETIA (False Wall Cress)

Pretty, dwarf-growing rock plants, forming broad masses of silvery green foliage and sheets of flowers in spring and early summer.
Bougainvillei. Dark blue flowers. Pkt. 15 cts.
Deltoidea purpurea. Purple. Height 6 inches. Pkt. 15 cts.
Græca. Light blue. 6 inches. Pkt. 15 cts.
Leichtlinii. Bright reddish crimson. Pkt. 15 cts.

BEGONIAS

TWO FINE NEW EVERBLOOMING BEGONIAS

Christmas Cheer

A magnificent novelty in the Everblooming or Semperflorens type of bedding Begonias. This variety bears flowers of enormous size, attaining a diameter of 2 inches, the plants being covered with a mass of blooms throughout the entire season. The color is a beautiful shade of bright cherry-red. This variety is particularly adapted for bedding purposes, being quite hardy and will thrive in either full sun or partial shade.

Christmas Pink

Same as above, except in color, which is a beautiful shade of bright pink.

Each, pkt. 25 cts., 5 pkts \$1, 1/4oz. \$5

Everblooming Bedding Varieties

The following varieties of *Begonia semperflorens* and *B. gracilis* take rank as bedding plants with geraniums and coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high, and forming dense bushes which, from May until frost, are completely hidden with flowers. As pot-plants they are a mass of bloom throughout the entire year. Easily raised from seed, which should be started either indoors or in a hotbed.

	Pkt.
Gracilis, Primadonna. Carmine-rose; brown-tinted foliage..	\$0 25
Gracilis, Bonfire. Scarlet; metallic brown foliage.....	25
Gracilis luminosa. Brilliant dark scarlet; very effective....	25
Semperflorens Erfordii. Rosy carmine; green foliage.....	15
Semperflorens, Rosabella. Rose-pink. Height 6 inches....	25
Semperflorens, Triumph. Pure, glistening white.....	15
Semperflorens, Vernon. Bright orange-carmine; red foliage..	15
Tuberous-rooted Single, Mixed. Excellent for indoor culture only.....	25
Tuberous-rooted Double, Mixed. The double form.....	25

BALLOON VINE (Love-in-a-Puff)

This rapid-growing annual climber succeeds best in a light soil and sunny situation. The flowers are white and the seed-vessels which resemble miniature balloons, are very interesting to children. Seed should be sown as soon as ground becomes warm, in an open situation. 8 feet. Pkt. 10 cts., 1/2oz. 50 cts., oz. 75 cts.

BAPTISIA (False Indigo)

Australis. Hardy perennial. Free-growing plant, with deep green cut foliage and lupine-like dark blue flowers in long racemes. 3 feet. June and July. Pkt. 15 cts., 1/4oz. \$1.50.

BARTONIA

Aurea. Hardy annual. Very bright golden flowers from July to September. Fine for cutting. 1 foot. Pkt. 10 cts., 1/4oz. 50 cts.



NEW ASTERS S. & W. Co.'s Midseason Giants

WE BELIEVE this new type to be the best Aster in cultivation today. The sturdy, upright plants produce giant flowers often 6 inches across, fully double, and of great substance, on long stems. For decorative effect in the garden and for cut bloom the Midseason Giants are unsurpassed.

1. Light Blue Giant
2. Peach-Blossom Giant
3. White Giant
4. Rich Rose Giant
5. Light Purple Giant
6. Dark Purple Giant

Each, pkt. 15c., 1/4oz. \$1

COLLECTION

One pkt. each
of the above
6 Midseason
Giants . . .

75c



Giant Double King Carnations

(SWEET SCENTED)

Easily Grown from Seed

MANY gardeners do not realize how readily these Carnations may be grown. Seed may be sown outdoors when cold weather has gone, or for earlier bloom, they may be sown in a frame, a greenhouse, or in a sunny window. Plant out the seedlings 6 inches apart, and from midsummer until frost you will have Carnations just as full and sweetly perfumed as those sold by the florist, and almost as large. All they need is garden soil of fair average quality and plenty of sun. If you look for best results, however, dig a little bone fertilizer into the land at planting-time and rake some into the surface during growth. Also, you may remove side buds so as to allow one flower on a stem at a time.

1. MAROON KING

2. ROSE KING

3. PINK KING

4. WHITE KING

5. YELLOW KING

6. RED KING

Each, pkt. 15 cts., $\frac{1}{8}$ oz. \$1, $\frac{1}{4}$ oz. \$1.50

Special Offer Collection

One pkt. each of
the above 6 Kings

75c.



Bellis perennis

BELLIS (English Daisy)

A favorite perennial, which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown any time from spring until August. For best results, new plants should be raised from seed each year.

	Pkt.	1/4oz.
Giant-flowering White, Pink, and Mixed	\$0 25	\$1 00
Snowball	15	75
Longfellow	15	75
Double Red Quilled	25	3 00

BOCCONIA (Plume Poppy; Tree Celandine)

Cordata. Effective, hardy perennial for single specimens or groups on lawns. Foliage glaucous green; bears freely spikes 2 to 3 feet long of cream-colored flowers; easily raised from seed. 5 feet. Pkt. 10 cts., 1/4oz. 50 cts.

BOLTONIA (False Chamomile)

One of the showiest of our native hardy perennials, growing 4 to 6 feet high, with daisy-like flowers, borne in great numbers from July to September.

Asteroides. White. Pkt. 10 cts.

Latisquama. Lilac-pink. Pkt. 10 cts.

CALLIOPSIS

ANNUAL VARIETIES (Calliopsis)

Very showy and splendid subjects for garden decoration as well as for cutting. Sow seed where intended to bloom in early spring; thin out to 6 inches apart. Cut flowers as soon as they open, as this prolongs the blooming season until late in the autumn.

***Golden Wave.** Rich golden yellow, chestnut-brown center. Height 1 foot.

***Crimson King.** Splendid dwarf variety; rich velvety crimson-garnet. Height 10 inches.

***Marmorata.** Rich golden yellow and wallflower-red. Height 2 feet.

***Tiger Star.** Rich reddish brown, tigered with golden yellow. Height 10 inches.

***Nigra speciosa.** Strong grower; large, rich reddish brown flowers. Height 2 feet.

***Bicolor nana.** Dwarf; compact; clear yellow, small garnet eye. Height 10 inches.

Golden Ray. Dwarf, compact plants not over 9 inches high, densely covered with rich maroon flowers edged golden yellow, the petals twisted like the cactus dahlia.

Tinctoria. A very striking tall-growing variety. The flowers are a bright yellow and maroon, evenly divided in color combination. Height 2 feet.

S. & W. Co.'s Mixture. A select mixture of tall varieties.

Each, pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50

SPECIAL COLLECTION: One pkt. each of the 6 varieties marked *, 50 cts.

PERENNIAL VARIETIES (Coreopsis)

Grandiflora. Deep golden yellow, cup-shaped flowers, on fine stems for cutting. Height 2 feet. All summer. Pkt. 10 cts., 1/4oz. 40 cts.

Grandiflora flore-pleno. A reselected strain producing semi-double (sometimes double) flowers which are a great improvement on the old type, being larger. They possess, however, the rich yellow color and graceful appearance which make Coreopsis so valuable for bedding or cut-flower purposes. Pkt. 15c., 1/4oz. 75c., oz. \$2.50.

Lanceolata grandiflora. Same as above except flower is lanced. Pkt. 10c., 1/4oz. 50c.

Mayfield Giant. A fine hardy perennial of Australian origin. The plant is taller and more vigorous than the type, with larger flowers on longer stems, and the color is more intense yellow. Recommended for the border and for cut-bloom. Pkt. 50 cts.

BROWALLIA (Amethyst)

Favorite annual, covered with beautiful rich blue flowers during summer and autumn in the garden. Blooms freely in winter if the plants are lifted in autumn and cut back.

Speciosa major. Pkt. 25 cts., 5 pkts. \$1.

BRACHYCOME (Swan River Daisy)

Free-flowering, dwarf-growing annual covered during the greater part of the summer with a profusion of pretty blue, red, or white flowers, suitable for edgings, small beds or pot culture. Height 9 inches.

Blue Star **Red Star** **White Star**

Each, pkt. 15 cts., 1/4oz. 75 cts.

BIDENS

Humilis. Easily grown annual, flowering a few weeks after sowing. Small, bright yellow flowers useful for cutting. Pkt. 15 cts., 1/4oz. 75 cts.

CACALIA

Coccinea (Tassel Flower; Flora's Paint-Brush). A neat annual, of easy culture, with bright red, tassel-shaped flowers; blooms from June to September; fine for borders. Pkt. 10 cts., 1/4oz. 60 cts.

CALANDRINIA

Grandiflora. Hardy perennial, flowering readily the first year from seed. Grows 2 feet high and has light purple flowers with yellow stamens. Plant in full sun. Pkt. 15 cts.

CALENDULA (Pot Marigold)

This is one of the best and showiest, free-flowering, hardy annuals and produces a fine effect in beds or mixed borders. Pkt. 1/4oz.

Golden King. Rich golden yellow..... \$0 25 \$0 50

Lemon King. Rich lemon-yellow..... 25 50

Orange King. Deepest orange..... 25 50

COLLECTION: One pkt. each of the above 3 Kings, 50 cts.

1/4oz. each of the 3 Kings, \$1

Meteor. Large; double; yellow, each petal striped with orange..... 10 25

Prince of Orange. Similar to Meteor, but darker.... 10 25

The Ball. Splendid orange variety for forcing..... 25 75

Mixed. All colors mixed..... 10 25



Brachycome

CALCEOLARIA

The strains offered herewith are grown by a famous English seed-growing specialist and are the finest in existence. The S. & W. Co.'s Giant Strain is intended for conservatory growing; the Rugosa for outside bedding.

S. & W. Co.'s Giant Strain. Pkt. 50 cts.
Rugosa. Shrubby; for bedding. Pkt. 50 cts.

CAMPANULA or BLUEBELLS

The perennial varieties are among our best border plants. The tall sorts are fine for cutting, while the dwarfs make excellent decorative plants. All have dainty bell-shaped flowers. Some of the varieties offered will flower the first season from seed.

Carpatica. This variety is largely used for edging. Flowers of deep blue all summer. Height about 6 inches.	Pkt. 1/4oz.	\$0 15	\$1 00
Carpatica alba. The white-flowered form of the above.	15	1 00	
Macrantha. Blue.	10	2 50	
Persicifolia grandiflora, Blue (Peach Bells). One of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large, blue flowers.	15	1 50	1/4oz.
Persicifolia grandiflora alba. The white-flowered form of the above.	15	2 00	
Persicifolia grandiflora, Telham Beauty. A hardy perennial growing 4 feet high, with large flowers of delicate china-blue; within the bells is a beautiful silvery shading. This variety fully deserves the popularity it is now enjoying.	5 pkts. \$1..	25	
Pyramidalis (Chimney Bellflower). Spikes 3 to 4 feet tall; erect, pyramidal flowers, large and of beautiful blue.	15	1 00	1/4oz.
Pyramidalis, White.	15	1 00	

CAMPANULA MEDIUM (Canterbury Bells)

These are strictly biennials, and require to be sown from June 1 to September 1; when strong enough, transplant to a distance of 6 inches apart; after frost has set in, protect with leaves and straw. They flower the following June, after which they die.

Single White, Rose, Light Blue, Dark Blue, Striped and Mixed. Each, pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.
Double White, Rose, Light Blue, Dark Blue and Mixed. Each, pkt. 15 cts., 1/4oz. 75 cts., oz. \$2.50.

CAMPANULA CALYCANTHEMA (Cup-and-Saucer)

These produce beautiful, large, single flowers resembling a cup and saucer; they require the same treatment as *Campanula Medium*.

White, Rose, Light Blue, Dark Blue, Striped and Mixed. Each, pkt. 15 cts., 1/4oz. 75 cts., oz. \$2.50.

CANDYTUFT (Iberis)

The Candytuft is almost as fragrant as the sweet alyssum and very popular. Very useful as a bedding plant or for border work. Sow outdoors in April, where it is to bloom, and thin well when the plants grow about 1 inch. Sow also in July for fall blooming. Where grown in rows, best results for cut-flowers can be obtained only by spacing the plants at least a foot apart in the rows and 1 1/2 feet between the rows.

Giant Hyacinth-flowered White. Tall. A fine white annual variety, which, through selection, has been greatly improved. The flowers are of large size, borne in large trusses well above the foliage. Finest for cutting or for the border. Pkt. 15 cts., 1/4oz. 60 cts., oz. \$2.

S. & W. CO.'S MAMMOTH-FLOWERED CANDYTUFT

Hardy Annuals

Large-flowered but uniformly dwarf types, suitable for edging, bedding, and for growth in the annual border.

Carmine White Lavender Crimson Flesh-Pink
Rose-Cardinal Each, pkt. 15c., 1/4oz. 50c., oz. \$1.50

COLLECTION: One pkt. each of above 6 colors, 75 cts.

Mixed Mammoth. Pkt. 10 cts., 1/4oz. 30 cts., oz. \$1.

PERENNIAL CANDYTUFT

A very early-flowering variety, largely used in the hardy border. Foliage exceedingly pleasing in color and very decorative.

Gibraltarica. White, shaded pink. Pkt. 15c., 1/4oz. 75c., oz. \$2.50.
Sempervirens. White flowers; evergreen. Pkt. 15 cts., 1/8oz. \$1, 1/4oz. \$1.50, oz. \$5.

CANARY-BIRD FLOWER (*Tropaeolum canariense*)

A rapid-growing, tall, climbing annual, producing hundreds of its pretty, fringed, bright yellow flowers. Pkt. 10 cts., 1/4oz. 25 cts.



Campanula Medium

CARDINAL CLIMBER

Ipomoea Quamoclit cardinalis

A rapid-growing, half-hardy, annual climber, often reaching 30 feet. The foliage is fern-like and the flowers are cardinal-red, 1 1/2 inches in diameter, and borne in clusters. Sow seeds indoors during April or outdoors in May. Pkt. 15 cts., 2 pkts. 25 cts., 1/4oz. \$1.

CARNATIONS

Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable, both for greenhouse culture in winter and for the garden in summer. The Giant Double King (see page 32), Marguerite, and Chabaud's types are the best for summer flowering.

Chabaud's Everblooming. Raised by a famous French specialist. Blooms in five months after being sown, and continues to flower in the greatest profusion. Mixed colors. Pkt. 25 cts., 1/4oz. \$1.50.

GIANT MARGUERITE CARNATIONS

They begin flowering in July if sown early in the spring. The strain offered is of fine quality, producing on long, strong stems an abundance of large, double, beautifully fringed, highly scented flowers; with slight protection they will survive an ordinary winter.

Giant Pink Giant White Giant Crimson Giant Scarlet Giant Yellow

Each, pkt. 15 cts., 1/4oz. \$1, oz. \$3

COLLECTION: One pkt. each of above 5 colors, 50 cts.

Giant Mixed Marguerite Carnations. Pkt. 10c., 1/4oz. 75c., oz. \$2.

Perpetual Border Carnations

Hardy Perennials

We offer a strain developed by a Carnation specialist who is world-famous. The blooms are produced in great abundance and combine the shape and colorings of the Carnation with the exquisite fragrance of the clove pink. **Pkt. 50 cts.**

CASTOR-OIL PLANT (Ricinus)

The Ricinus are tall, stately growing plants of tropical appearance; their luxuriant foliage renders them exceedingly ornamental. Free-growing, tender half-hardy annuals of easy cultivation.

	Pkt.	Oz.
Africanus. Very large green foliage.....	\$0 10	\$0 25
Zanzibarensis. New Giant Castor-Oil Plant from Africa.....	10	25
Borboniensis arboreus. Handsome green foliage. 15 feet....	10	25
Communis (Castor-Oil Plant). Green foliage. 6 feet.....	10	25
Gibsoni. Dark, purplish-red foliage. 6 feet.....	10	25
Cambodgensis. Leaves bronzy maroon; red veins; stems black	10	25
Duchess of Edinburgh. Dark red foliage. 6 feet.....	10	25
Sanguineus. Tricolor, red spotted; fruit in clusters. 10 feet..	10	25
Mixed	10	25
	1/4 lb. 75 cts., lb. \$2..	

CELOSIA

Celosia cristata (Cockscomb)

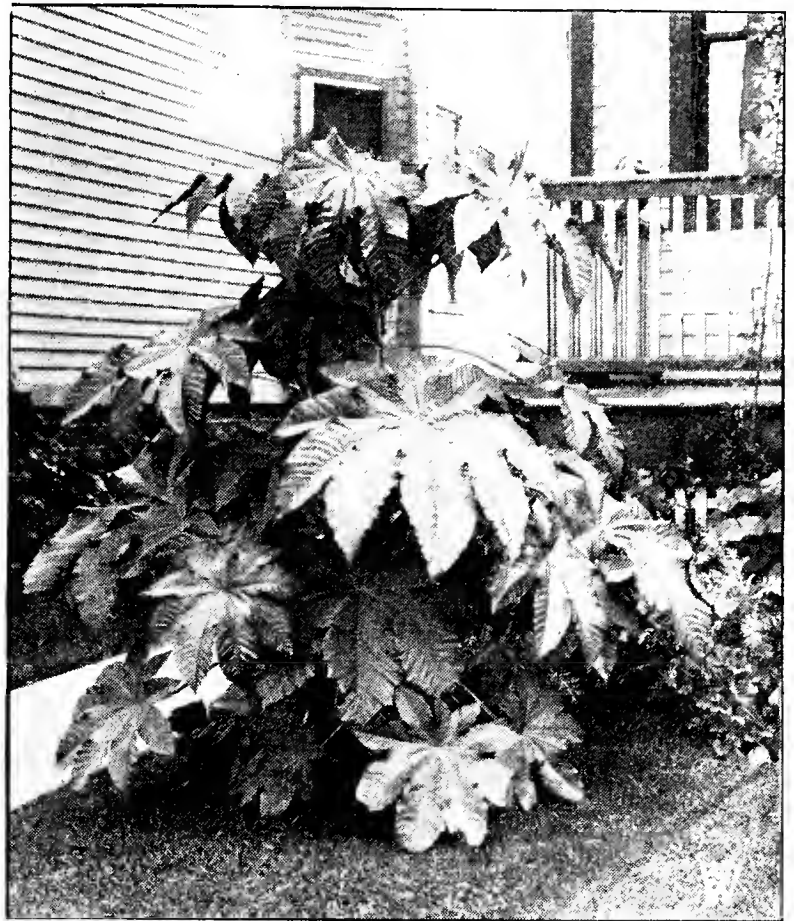
Free-blooming annuals, growing best in rather light soil, not too rich; make grand border plants and are attractive for pots. Seed can be sown under cover in early spring and planted out in May, or may be sown outdoors in May. If dwarf growth is desired, do not crowd.

- Empress.** Rich crimson. 1 foot. Pkt. 15 cts., 1/4 oz. \$1.
Glasgow Prize. Dark crimson. 1 foot. Pkt. 15 cts., 1/4 oz. \$1.
Golden Yellow. A rich shade. 1 foot. Pkt. 15 cts., 1/4 oz. \$1.
Dwarf Mixed. 1 foot. Pkt. 10 cts., 1/4 oz. 75 cts.

Celosia plumosa (Feathered Cockscomb)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets. Should be treated same as Cockscomb described above.

- Ostrich-plumed, Crimson.** Pkt. 10 cts., 1/4 oz. 50 cts.
Ostrich-plumed, Yellow. Pkt. 10 cts., 1/4 oz. 50 cts.
Ostrich-plumed, Mixed. Pkt. 10 cts., 1/4 oz. 50 cts.



Castor-oil Plant

Celosia Thompsonii magnifica

Improved Strain of Feathered Cockscomb

Thompsonii magnifica is of pyramidal growth, often attaining the height of 3 feet, and producing graceful, feathery plumes of the most magnificent shades.

- Thompsonii magnifica, Crimson.** Bright crimson. Pkt. 15 cts., 1/4 oz. \$1.
Thompsonii magnifica, Yellow. Beautiful yellow. Pkt. 15 cts., 1/4 oz. \$1.
Thompsonii magnifica, Mixed. Pkt. 10 cts., 1/4 oz. 75 cts.

Celosia, Pride of Castle Gould

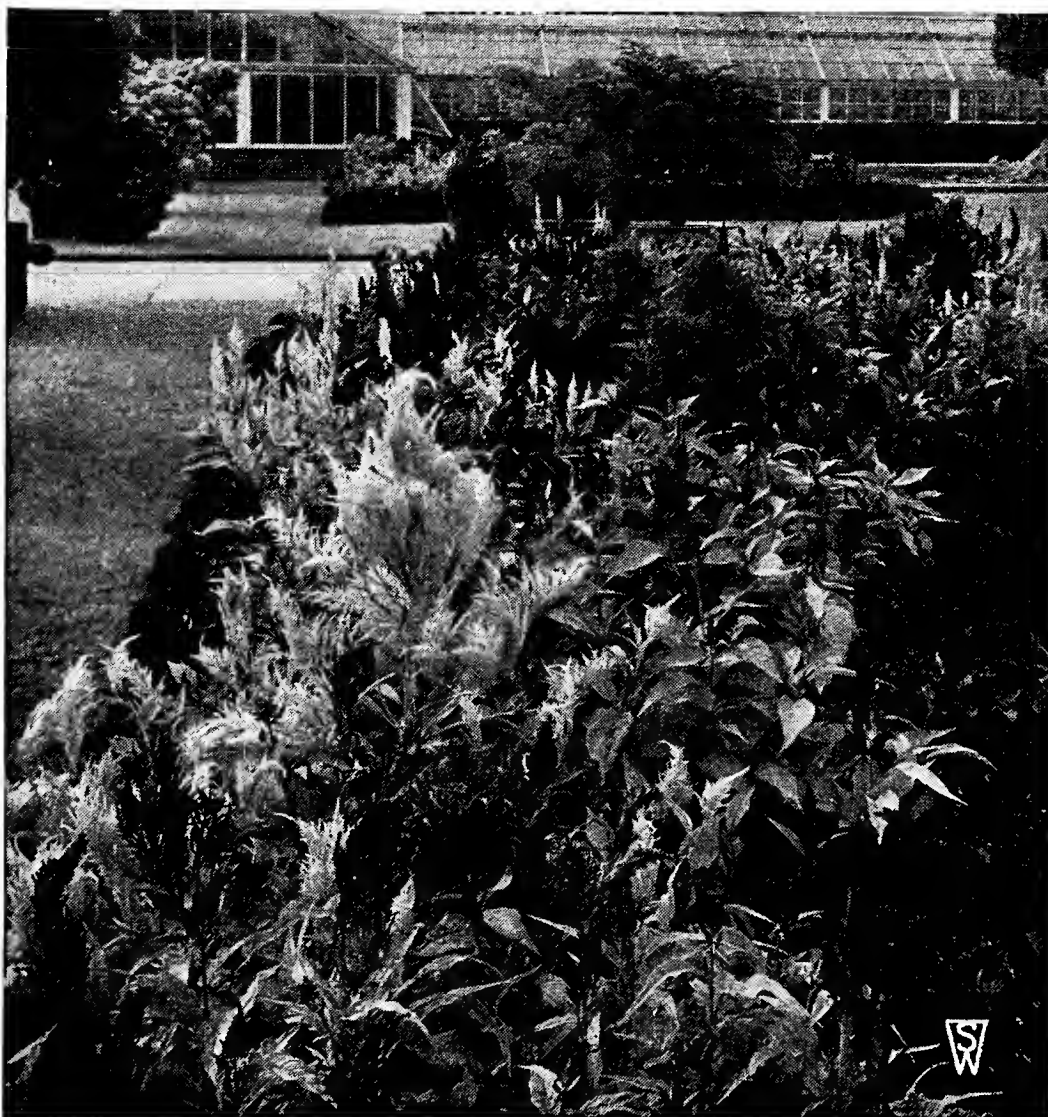
A distinct type of *Celosia pyramidalis* and surpassing by far anything yet on the market. The compact, pyramidal plants grow from 2 to 3 feet high, with immense feathered heads of all colors: Blood-red, wine-red, scarlet, carmine, salmon, orange, and gold.

This illustration is from a photograph taken on the estate of Mr. M. C. D. Borden, Oceanic, N. J. (William Turner, Supt.). The following is a description by Mr. Turner: "Celosia Castle Gould is admirably adapted for growing along in pots for decorative purposes or for planting out in beds, provided the beds are situated to receive full benefit from the sun's rays. Castle Gould is a decided improvement over all other Celosias, both for richness of colors and the massive plumes this variety produces. Being a free, vigorous grower, it is not necessary to sow the seed for outdoor planting until say the middle of March." Per pkt., mixed shades, 25 cts., 1/8 oz. \$1, 1/4 oz. \$1.50.

Celosia Childsii (Chinese Woolflower)

This is a unique form of the feathered Cockscomb, growing 2 to 3 feet high and about the same size in diameter. Each branch is terminated with a large head of rich crimson flowers that look as if made out of some silky wool material. A very effective annual for beds and borders. May be used to excellent advantage as a cut-flower as well.

- Crimson.** Very rich color. **Pink.** Dark pink.
Yellow. Light gold. **Fine Mixed.**
 Each, pkt. 15 cts., 2 pkts. 25 cts., 1/4 oz. \$1.



Celosia, Pride of Castle Gould

CENTAUREAS

There is, perhaps, no more popular annual than the Centaurea. Will grow well anywhere and as a cut-flower is much in demand.

Double Cornflowers (*Centaurea Cyanus*)

These are also known as Blue Bottle, Bachelor's Buttons, Ragged Sailor, Bluet, and sometimes referred to as Ragged Robin. As Ragged Robin is also a name given to *Lychnis*, we suggest patrons ordering by botanical name to avoid confusion. We offer a much improved strain of this beautiful flower in a better range of colors, with larger flowers. The seed may be sown outdoors in April, and several sowings will give a succession of bloom. For best results, thin out plants to stand 8 inches apart.

Blue Rose-Pink White
Maroon Mauve Rosy Red

Any of the above colors, pkt. 10 cts., 1/4oz. 30 cts., oz. 75 cts.

COLLECTION: One pkt. each of above 6 colors, 50 cts.

Double Mixed. A mixture of all the above colors. . . \$0 10 Pkt. 1/4oz. \$0 25

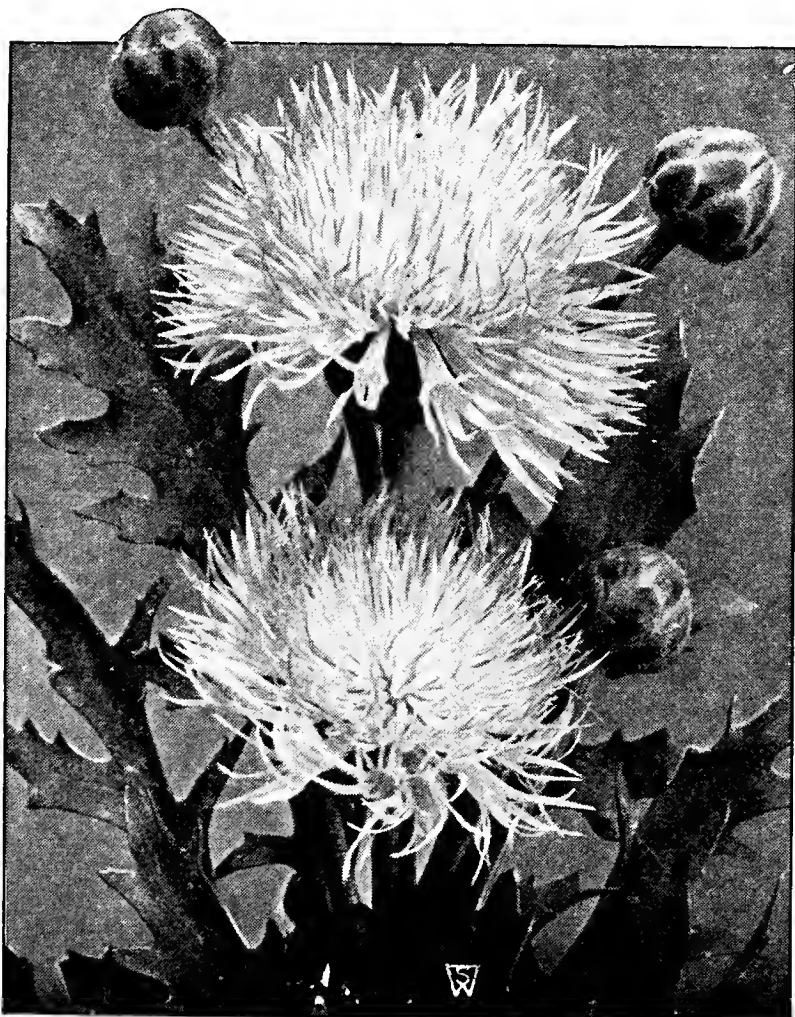
Giant Sweet Sultans (*Centaurea imperialis*)

This beautiful class is undoubtedly the finest of all the Sweet Sultans for cutting purposes. Beautiful, deliciously sweet-scented flowers are borne on long, strong stems and are particularly striking, lasting several days after cutting. We recommend sowing in succession every two weeks from May until July, thereby giving a continuous bloom from summer to fall.

Imperialis, White. Large and exquisitely sweet-scented.
Imperialis, Pink. Pink, with tinge in center.
Imperialis, Purple. Brilliant rosy purple.
Imperialis, Lilac. Beautiful lilac.
Imperialis, Red. New. Deep amaranth-red.
Imperialis, Yellow (*Suaveolens*). Bright yellow.
Imperialis, Mixed. A select Mixture of above colors.

Any of the above colors, or mixed, pkt. 15 cts., 1/4oz. 50 cts.

COLLECTIONS: One pkt. each of above 6 colors, 50 cts.



Giant Sweet Sultans (*Centaurea imperialis*)



Double Cornflowers (*Centaurea Cyanus*)

White-leaved Centaureas

Dusty Millers

Extensively used for edging of beds or borders of the flower-garden. The glistening white, contrasted with the bright color of the coleus, salvia or red canna, is very striking.

Candidissima. This hardy, rapid-growing annual is only Pkt. 1/4oz. grown for its foliage which is very lanced and silver coated. An excellent edging plant. \$0 10 \$0 75

Gymnocarpa (Dusty Miller). Leaves fern-like; a trifle taller than *Candidissima*. 10 50

Various Centaureas

Americana. The stems, foliage, and flowers of this Cornflower are Pkt. gigantic in size compared with the regular sorts. The flowers, which appear thistle-like, attain the size of 4 inches when fully expanded and are of a splendid, deep lavender color, making an excellent subject for garden decoration or cuttings. Like the *Cyanus*, it is easily flowered from seed sown outdoors; plants should be placed at least 1 foot apart. Height 3 feet. 1/4oz. 50 cts. . . \$0 15

Americana alba. A splendid white form of the above. . . 1/4oz. 75 cts. . . 15

Macrocephala. This is a hardy perennial variety with large, thistle-like, golden yellow flowers, useful for cutting and fine for the hardy border. Blooms during July and August. 3 1/2 feet. . . 1/4oz. 50 cts. . . 10

Montana (Perennial Cornflower). Grows 2 feet high, bearing large, violet-blue flowers from July to September. 1/4oz. 50 cts. . . 10

Montana alba. Large, white form of the above. 1/4oz. 75 cts. . . 15

CHRYSANTHEMUMS

ANNUAL VARIETIES

We offer a choice selection of the best varieties of this showy hardy annual. They are splendid subjects for the border or for cutting. The plants average 2 feet in height, and bear their daisy-like flowers in great profusion on strong stems from July to October.

Burridgeanum (Beaconsfield). White petals, zone of rich brownish red, inner zone yellow.

Chameleon. The colors vary, but generally are brown and yellow.

Eastern Star. Clear yellow petals with dark disc.

Evening Star. Yellow petals, dark disc.

Morning Star. Petals canary-yellow, with a halo of deeper yellow, disc darker.

Northern Star. Daisy-like flowers, 3 inches in diameter; pure white, fringed petals with canary-yellow zone around a dark brown eye.

The Sultan. Rich wallflower-red with a narrow yellow zone around the brown disc.

Each, pkt. 15 cts., 1/4oz. 50 cts., oz. \$1.50

COLLECTION: One pkt. each of above 7 varieties, 75 cts.

	Pkt.	1/4 oz.
Golden Queen . Double; golden yellow.....	\$0 15	\$0 50
White Queen . Double; pure white.....	15	50
Single Annual Varieties Mixed . A choice mixture...	10	50
Double Annual Varieties Mixed	10	50

PERENNIAL VARIETY (Shasta Daisy)

Chrysanthemum Leucanthemum, Alaska. A splendid hardy perennial variety, with flowers frequently 5 inches across, of the purest glistening white, with broad, overlapping petals..... 25 75

CATANANCHE

Bicolor. Hardy perennial; blue and white flowers. Height 3 ft. Pkt 25c.
Cerulea. Blue. Height 3 feet. Pkt. 25 cts.

CHELONE (Turtlehead)

Beautiful hardy perennial; very decorative; fine for cutting; should be grown in every garden.

	Pkt.	1/4 oz.
Barbata coccinea . Red. Summer. 3 feet.....	\$0 10	\$0 50
Barbata Torreyi . Coral-red. Summer. 3 feet.....	10	50

CINERARIA

Seed should be sown from May to September where a succession is desired. When sown at this time, fine plants may be secured. The main point in the culture of Cinerarias is to secure as hardy a growth as possible with leaves of medium size. Seed may be transferred direct from seed-pans to thumb-pots. After planting, place in cold-frame facing north, if possible. As pots become full of roots, shift to larger ones until flowering size is reached.

Giant-flowering Exhibition Strain

This strain of prize Cinerarias, grown for us by a famous specialist, produces numerous individual flowers, exceeding 5 inches in diameter, with petals 1 to 1 1/4 inches wide. The giant blooms are borne in large, compact trusses on well-formed plants with dark green foliage.

Exhibition Strain, Blue Shades. Selected with utmost care.

Exhibition Strain, Crimson and Carmine Shades. This magnificent selection is especially brilliant under artificial light.

Exhibition Strain, Salmon Shades. One of the loveliest developments, appealing strongly to those fond of the daintier tints.

Exhibition Strain, Mixed. All the above in pleasing proportions to make the best showing. The whole color range of our rich strain.

Any of the above, pkt. 50 cts.

S. & W. Co.'s Stellata. This variety has delicate, star-like blooms in great profusion on long stems. It is excellent for cutting as well as decorative purposes.

Tall or Dwarf Mixed. All shades. Each, pkt. 50 cts.

Multiflora Nana, Potsdam. An extra-choice, dwarf-growing strain with the plants completely covered with brightly colored flowers.

Cerulea. Sky-blue. **Crimson**. **Mixed**.
Azurea. Dark blue. **Rose**.

Any of the above, pkt. 50 cts.

Matador. A new large-flowering, deep scarlet; adds brilliance to a collection. Pkt. 50 cts.

CERASTIUM

Tomentosum. Hardy perennial. A pretty dwarf, white-leaved edging plant; small white flowers. Pkt. 15 cts., 1/4oz. \$1.50, oz. \$5.

CLARKIA ELEGANS

An annual, flowering in July, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. Flowers in long racemes which all open in water when cut.

	Pkt.	1/4 oz.
Single Rose	\$0 10	\$0 30
Single White	10	30
Single Mixed	10	25

DOUBLE VARIETIES

We consider these varieties of Double Clarkias a decided acquisition.

	Pkt.	1/4 oz.
Salmon Queen . Salmon.....	\$0 15	\$0 50
Brilliant King . Crimson.....	15	50
Purple King . Purple.....	15	50
Scarlet King . Scarlet.....	15	50
White King . White.....	15	50
COLLECTION: One pkt. each of above 5 Double Clarkias, 60c.		
Double Mixed	15	40

CLEOME (Spider Flower)

Gigantea. Annual. Singular-looking, rose-colored flowers; the stamens look like spiders' legs, and present a very attractive appearance. This plant is now used extensively in many of the public parks, planted among shrubbery, and is very effective. Sow seed outdoors in May and thin out to stand 2 feet apart. Height 3 feet. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

COBÆA (Cup-and-Saucer Vine)

A climber of rapid growth, attaining a height of 30 to 50 feet during the season, valuable for covering trellises, arbors, trunks of trees, etc.; will cling to any rough surface. In sowing, place seeds edgewise and merely cover lightly with soil; to get early results, start the seed indoors in March or April; can also be sown out-of-doors in May.

Scandens. Large bell-shaped purple flowers. Pkt. 10c., 1/4oz. 50c.

Scandens alba. Pure white. Pkt. 15 cts., 1/4oz. 75 cts.

CONVOLVULUS. See *Ipomœa*, page 49.

COSMIDIUM

A daisy-like annual, quite similar to calliopsis and of equally simple cultivation. Sow where the plant is to grow, thin to 6 inches or more apart, when orange and yellow flowers will be produced from June to October.

Crown of Gold. Pkt. 10 cts., 1/2oz. 50 cts.

CUPHEA (Cigar Plant)

Platycentra. Pretty, half-hardy perennial. Bears long tube-shaped scarlet flowers. Pkt. 15 cts., 2 pkts. 25 cts.

CYNOGLOSSUM

Chinese Forget-me-not; Hounds Tongue

Amabile. Hardy annual. A highly perfumed plant of easy culture, suitable for bedding and cut-flowers. Height 20 inches.

	Pkt.	1/4 oz.	Oz.
Blue	\$0 15	\$0 50	\$1 50
White	15	50	1 50
Pink	25	1 00	3 00

CYCLAMEN (Giant-flowering)

The following varieties are European-grown. They have been developed by one of the greatest specialists in this excellent pot-plant. They make very beautiful house plants. Seed is usually sown in the autumn.

	Pkt.	50 seeds	100 seeds
Bright Red	\$0 25	\$1 50	\$2 50
Pure Rose	25	1 50	2 50
White with Carmine Eye	25	1 50	2 50
Lavender	25	2 00	3 50
Salmon Color, Dark	25	2 00	3 50
Salmon Color, Light	25	2 00	3 50
Salmon-Rose, Improved	50	2 50	4 00
Salmon-Scarlet (Christmas Color)	50	3 00	5 00
Saffron-Red	50	2 50	4 00
Pure White	25	1 50	2 50
Mixed . All varieties.....	25	1 50	2 50

COSMOS

This is one of the most notable summer and fall flowers, the specialists' skill having added much to its beauty.

We recommend the sowing of Cosmos about the first of May, outdoors in rows, covering the seed about $\frac{1}{4}$ inch, and when the plants are about 3 inches high, thin out or transplant to not less than 2 feet apart. Any garden soil will grow Cosmos to perfection; frequent cultivation around the base of the plants will greatly benefit them.

Early Single Dwarf Cosmos, Summer-Flowering Type

Frequently the amateur finds that the Cosmos of the Late-flowering Tall type, selected by him for growing in borders or beds with other annual flowers, is unsuitable because of its flowering late in the summer, and also growing to the height of 6 to 8 feet. We, therefore, take pleasure in offering this new Early-flowering Dwarf Cosmos, which, if sown outdoors about the first of May, will give an abundance of cut-flowers for the table or home decoration from July until cut down by frost.

This type of Cosmos grows about 4 feet high, and while the flowers are not quite so large as the Late Mammoth-flowering type offered on this page, they are admirably adapted to the use of the suburbanite whose garden-space is small.

Early Single Dwarf, White.	} Each, pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50
" " " Pink.	
" " " Crimson.	
" " " Mixed.	

COLLECTION: Pkt. each of above 3 colors 25 cts.

Early Double Dwarf Cosmos, New Double Crested Type (Beauty)

The Extra-Early Double strain of Cosmos has been very much improved in this crested type. Its flowers are unusually large, and they come into bloom fully as early as the Early Single sorts.

Early Double, Pink Beauty.	} Each pkt. 25 cts. $\frac{1}{4}$ oz. \$1, oz. \$3.50
" " " White Beauty.	
" " " Crimson Beauty.	
" " " Mixed Beauty.	

COLLECTION: Pkt. each of above 3 colors 60 cts.

Late Single Tall Cosmos, Mammoth- Flowering Type

This type of Cosmos, which has been greatly improved over the old tall, small-flowering varieties, blooms late in the summer—usually September in this latitude—and coming at this season of the year, when nearly everything in the garden has finished blooming, it is a very desirable addition.

Late Single Tall White, Pink, Crimson, and Mixed. Each, pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.

COLLECTION: Pkt. each of above 3 colors 25 cts.



Mammoth Tall White Cosmos

Lady Lenox. Gigantic flowers, the petals having a wide overlapping character and of splendid substance; its beautiful, deep rosy pink color and splendid form make this Cosmos one of the most widely grown. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Lady Lenox, White. Similar to above, but white. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Hollywood Star. In this type the ray florets are tubular and narrow in form, giving the flowers a graceful stellar appearance. We offer it in a mixture of colors—Red, Pink, and White. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Late Double Tall Cosmos, Crested Type

A notable addition to this beautiful family of easily grown annuals for cutting. Due to the painstaking effort on the part of an American grower, this strain has been further improved upon, in size of flower, greater degree of doubleness, and general vigor of the plant.

Late Double Tall, Pink. Beautiful rose-pink.

Late Double Tall, Crimson. Rich rose-crimson.

" " " White. Pure glistening white.

" " " Mixed. Mixture of the three.

Each, pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50

COLLECTION: Pkt. each of above 3 colors, 30 cts.

Delphiniums



Stumpp & Walter Co.'s Super Gold Medal Hybrids

Where the Blues Begin

DELICATE TINTS AND EXOTIC HUES IN THIS CYCLE OF BLUES

S. & W. Co.'s Super Gold Medal Hybrid Delphiniums

We have finally reached the zenith of perfection in the cultivation and hybridization of Delphiniums. These highly desirable and popular perennials bear ponderous blooms of giant florets showing marvelous shadings and tints. They will readily lend themselves to the esthetic taste of the most discriminating flower connoisseurs and enhance the judgment of those who use them for cut-flowers.

Wave Crest Blue Shades. A very delicate and charming strain of pale and light blues.

Delft Blue Shades. True blues of special beauty.

Royal Art Tints. A very desirable mixture of subtle shades.

Salon Blue Shades. This strain abounds in rich, dark, velvety tints.

SPECIAL COLLECTION: 1 pkt. each of the above, \$1.50. Each of the above, pkt. 50 cts., 1/8oz. \$2, 1/4oz. \$3.50

Super Gold Medal Hybrids, Mixed. This Mixture is prepared so as to give our patrons all the best colors. Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50.

Various Varieties

New Hollyhock Strain. A fine mixture of all light shades, pale clear blue predominating. Large flowers, truly double, are well placed on long, pyramidal spikes. Their sturdy appearance reminds one of the Hollyhock—hence the name. . . . \$0 35 \$2 50 \$4 00

Belladonna (Everblooming Hardy Larkspur). One of the finest and most continuous-blooming hardy Larkspurs. Clear turquoise-blue flowers, unequaled for delicacy and beauty. . . . 25 1 00 1 50

Bellamosa. Similar to the above except in color which is a beautiful shade of dark blue. . . . 25 1 00 1 50

Chinense (Blue Butterfly). Fine, feathery foliage, and many spikes of large blossoms of intense gentian-blue. Blooms the first year if sown early. Height 1 1/2 feet. . . . \$0 10 \$0 75 \$1 25

Album. The white-flowered form of the above. . . 10 75 1 25

Cardinale. A very beautiful cardinal-scarlet; plants grow about 1 1/2 feet high. . . . 25 1 00 1 75

Formosum. Large; rich blue, white center; spikes 2 to 3 feet, one of the most popular varieties. . . 25 1 00 1 75

Formosum celestinum. Beautiful sky-blue, white center; similar in habit to the above. . . 25 1 00 1 75

Nudicaule, Lemon Gem. Fine light yellow. Height 1 1/2 feet. . . . 25 1 50 2 50

DIANTHUS (Pinks)

In this large and greatly varied genus are some of our most beautiful and best-loved flowers, unsurpassed for color and fragrance. Mostly they are hardy biennials that bloom finely for the first season, remaining green all winter and blooming the next year also, if lightly protected. Seed may be sown in the open in early spring when the danger of frost is past, and if the situation is open and the ground is well prepared, they will flower luxuriantly in a few weeks' time and continue until hard frost. They average 1 foot in height and are splendid for borders and for cutting.

DOUBLE ANNUAL VARIETIES

Chinensis fl.-pl. (China or Indian Pink). Flowers are borne in clusters, very double and in a large range of bright colors	Pkt. \$0 10	¼oz. \$0 50
Diadematus fl.-pl. (Double Diadem Pink). Beautiful double flowers in various tints of lilac, crimson, purple; outer edges fringed.....	15	75
Fireball. New. Extra double brilliant dark scarlet; very beautiful.....	15	75
Heddewigii fl.-pl. (Double Japan Pink). Double mixed, colors varying from richest crimson to most delicate rose.....	10	50
Laciniatus fl.-pl. (Double Fringed Pink). Large double flowers in a great variety of colors; edges fringed	15	75
Lucifer. Brilliant orange-scarlet, flowers measuring about 2 inches across; very dazzling and popular variety; nicely fringed.....	15	75
Salmon King. Brilliant salmon-rose.....	15	75
Snowball. This splendid variety of the Dianthus or Pink family is one of the finest of all this genus for cutting. It is classed as a biennial but may be treated as an annual and sown outdoors when all danger of frost is past. It requires a rich soil and an abundance of sunshine. The plants grow about a foot high and are excellent for beds or borders. Large, double, white flowers	15	50
Violet Queen. A rich violet—rather unusual shade...	15	75



Double Annual Pinks

SINGLE ANNUAL VARIETIES

Among these single sorts are many beautiful varieties, and the flowers often measure 2 to 3 inches in diameter.

Crimson Belle. Rich crimson. Height, 1 foot.....	Pkt. \$0 10	¼oz. \$0 50
Eastern Queen. Delicately marbled rose and mauve flowers.....	10	50
Queen of Holland. Beautiful white	15	75
Laciniatus (Single Fringed Pink). A great variety of colors.....	10	35
Salmon Queen. Beautiful fringed flowers of brilliant salmon color changing to old rose when fully mature	10	50
Vesuvius. Beautiful orange-scarlet flowers; striking in beds or borders.	10	50

S. & W. Co.'s Special Mixture of Annual Sorts. A grand collection of these ever-popular garden, or China Pinks. All large-flowering varieties, unrivaled for brilliancy and rich variety of color; they bloom in perfect succession during the whole summer and autumn. Mixed colors. **Pkt. 10 cts., ¼oz. 50 cts.**

COLLECTION OF ANNUAL SORTS: One pkt. each of 10 choice Dianthus, 5 named Double and 5 named Single sorts, for 75 cts.

HARDY GARDEN PINKS

Sweet Wivelsfield. A hardy biennial type which ordinarily is sown in July to flower the following year; if sown indoors during February or March, however, it will bloom the same year. Recommended for borders and for rock-gardens; also as a cut-flower. Delicately fringed, sweet-william-like flowers in various colors are produced from July to frost. **Pkt. 15 cts., ⅛oz. 75 cts., ¼oz. \$1.**

Allwoodi. This new hardy half Carnation and half Pink is looked upon with great favor by British flower-lovers. The plant combines all the good qualities of the Carnation with the delicious clove scent of the Pink. No plant can be hardier. It is adaptable for gardens, rockeries, window-boxes, and pot culture in conservatories. In a mixture of all colors, except yellow. **Pkt. 25 cts., 5 pkts. \$1.**

Deltoides. Rosy purple. Invaluable for the rock-garden. 6 ins... **Pkt. 10 cts., ⅛oz. 50 cts., ¼oz. \$1 50**

Latifolius atrococcineus fl.-pl. The heads of brilliant red flowers are quite double. Will flower first season from seed..... **10 50 1 50**

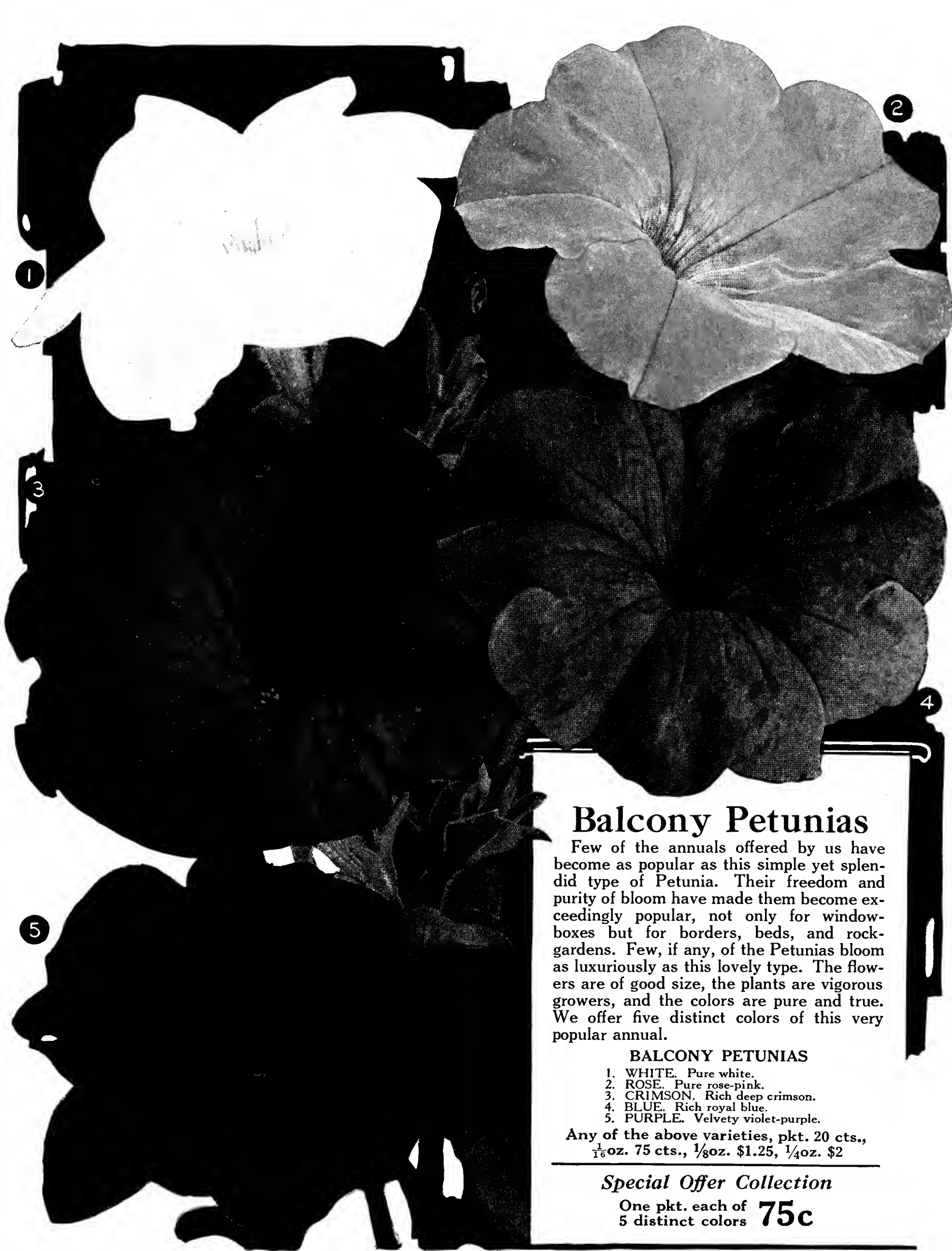
Plumarius, Double Mixed. Fringed, fragrant flowers of white, crimson, or purple shades, spotted and variegated. Height 1 foot. **10 75 2 50**

Plumarius, Single Mixed. Large, fragrant flowers of beautiful colors and finely fringed..... **10 50 1 50**

Scotch or Florists' Pinks. These flower profusely during spring and early summer. The flowers are large, double, fringed, and emit a grateful clove-like perfume. Mixed colors..... **25 1 00 3 50**



Single Annual Pinks



Balcony Petunias

Few of the annuals offered by us have become as popular as this simple yet splendid type of Petunia. Their freedom and purity of bloom have made them become exceedingly popular, not only for window-boxes but for borders, beds, and rock-gardens. Few, if any, of the Petunias bloom as luxuriously as this lovely type. The flowers are of good size, the plants are vigorous growers, and the colors are pure and true. We offer five distinct colors of this very popular annual.

BALCONY PETUNIAS

1. WHITE. Pure white.
2. ROSE. Pure rose-pink.
3. CRIMSON. Rich deep crimson.
4. BLUE. Rich royal blue.
5. PURPLE. Velvety violet-purple.

Any of the above varieties, pkt. 20 cts.,
 $\frac{1}{16}$ oz. 75 cts., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2

Special Offer Collection

One pkt. each of
5 distinct colors **75c**



SCABIOSA

(Mourning Bride; Pin Cushion Flower)

IF WE were carefully to take into consideration the number of easily grown annual flowers that are best adapted for cut-flower purposes, and if our list were limited in number, we would suggest the growing of Scabiosa. The plants reach a height of about 2½ feet and begin blooming in early July, continuing without interruption until hard frost. The flowers are fully as large as illustrated, and the colors as nearly the same as good color printing can register them.

They make effective lines in the flower-garden. For best results, sow seed as soon as trees are out in leaf, in a well-prepared seed-bed, transplanting plants so as to leave 1 foot between them. It will greatly add to the beauty of the plant if light stakes are used for support, although this is not necessary. Keep flowers well cut as this helps to increase blooming. The beautiful flowers are borne on long stems and will keep almost a week in water after cutting.

1. AZURE FAIRY. Clear lavender-blue.
2. SHELL-PINK. Delicate tint.
3. CRIMSON. Brilliant shade.
4. WHITE. Pure white.
5. ROSE. Rose-pink.
6. KING OF THE BLACKS. Velvety black-purple.

Each, pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50

Special Offer Collection

1 pkt. each of the above 6 varieties. **50c**

CYPRESS VINE

(*Ipomœa Quamoclit*)

One of the most popular of annual climbing plants with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. It is advisable to soak seed in water for a few hours before planting out in order to hasten the germination. Frequently attains a height of 15 feet; sow outdoors in May.

Crimson White Rose Mixed
Each, pkt. 10 cts., 1/4oz. 25 cts.

DAHLIA

Half-hardy perennial. Our seed has been saved from a superb collection of the finest named varieties.

Giant Peony-flowered, Mixed. Saved from Pkt. finest blooms.....\$0 25

Cactus, Mixed. Saved from a choice collection. 25

Double-flowering Exhibition Strain, Mixed. Saved from fine Show sorts..... 50

COLTNESS HYBRIDS. A splendid class of single Dahlias. They are of neat, compact habit, averaging about 18 inches high, and comprise a beautiful range of colors. Pkt. 25 cts., 1/4oz. \$1, 1/4oz. \$1.50.

DATURA

Cornucopia (Trumpet Flower). A grand annual plant. The flowers average 8 inches long by 5 inches across; French white inside, purple outside; delightfully fragrant. Started early, will flower from early summer until fall. Pkt. 10c., 1/4oz. 50c.

DIASCIA

Barberæ. The plants average 9 to 12 inches in height and the dainty spurred flowers are freely produced in sprays on wiry stems. The flowers are 3/8 inch in diameter and of a soft salmon-rose. Half hardy annual. Pkt. 25 cts., 5 pkts. \$1, 1/4oz. \$1.50.



Dimorphotheca (African Golden Daisy)

DICTAMNUS (Gas Plant)

Albus (*Fraxinella alba*). Hardy perennial, producing white flowers during June and July. Height 2 1/2 feet. Pkt. 15 cts.

Pink (*F. rubra*) Same as the above, except in color which is a deep pink. Pkt. 15 cts.

DIDISCUS (Queen Anne's Lace Flower)

Cærulea. Queen Anne's Lace Flower grows into an upright, very much-branched plant about 2 feet high. Each branch ends in an umbel of sky-blue flowers, which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. It is easily grown and a splendid cut-flower, lasting unusually long in water. Seed may be sown outdoors in a well-prepared seed-bed when trees are out in leaf; water copiously during hot weather. **Pkt. 15 cts., 1/4oz. 50 cts.**

DIGITALIS (Foxglove)

This ornamental hardy plant is used extensively for naturalizing in shrubbery borders and along the edges of woods. It grows well under almost all conditions, giving a wealth of bloom during June and July.

Gloxiniæflora. This is an improved strain of the ordinary Foxglove, *D. purpurea*, with handsome spotted Gloxinia-like flowers on long spikes.

Alba. White ground. **Rosea.** Rose ground. **Mixed.**
Purpurea. Purple ground. **Lutea.** Yellow ground.

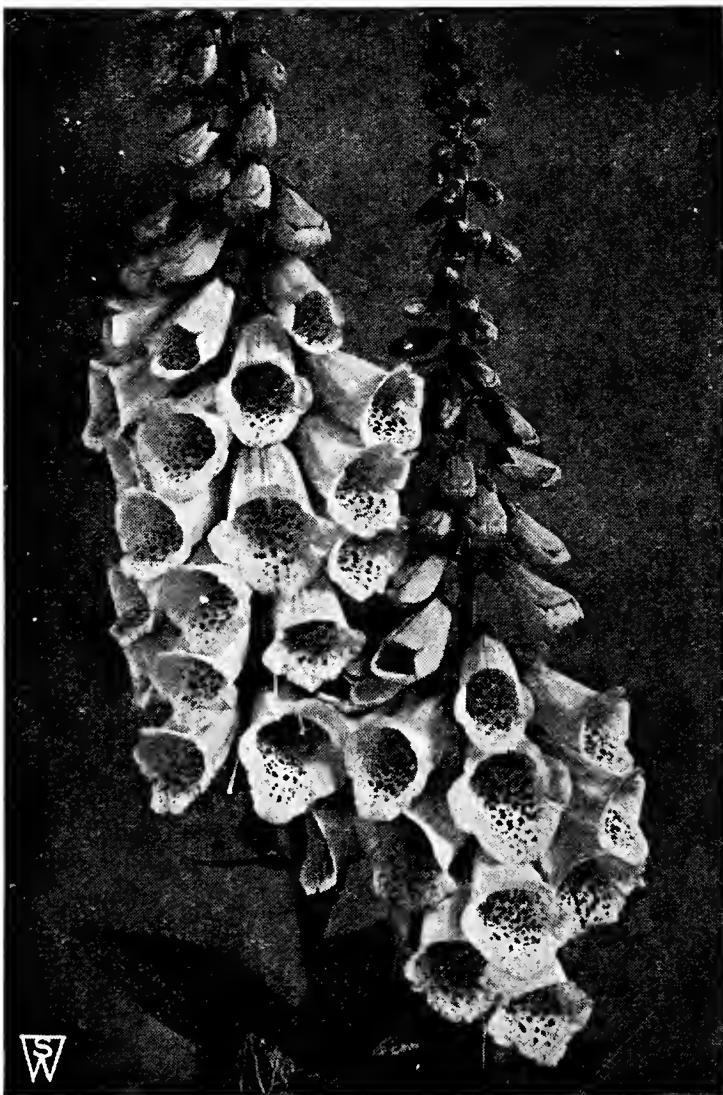
Each, pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50

Monstrosa (Mammoth Foxglove). Long spikes surmounted by one enormous flower; all colors mixed. Pkt. 15 cts., 1/4oz. \$1, oz. \$3.50.

DIMORPHOTHECA (African Golden Daisy)

The plants are of branching habit, growing about 15 inches high. An easily cultivated annual.

	Pkt.	1/4oz.
Aurantiaca. Golden orange.....	\$0 10	\$0 50
Salmon Beauty. Large flowers of a pleasing true salmon shade....	15	75
White Beauty. A white form of the above.....	15	75
Aurantiaca Hybrids. Beautiful new hybrids of the African Golden Daisy and similar in habit to the parent. The flowers are equally as large, but vary in color from the purest white through the various shades of yellow and orange to rich salmon shades, many being zoned with several of these colors around the black disc.....	15	75



Digitalis Gloxiniaeflora

DOLICHOS (Hyacinth Bean)

A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods. Fine for covering arbors, trellises, etc. Sow the seed in the garden in beds where it is to remain. Height 10 feet.

Daylight. This grand Hyacinth Bean comes from Japan. In our trial-grounds, plants from seed sown late in May had, by the middle of July, attained a height of over 10 feet, and were covered with spikes of snow-white, pea-shaped blossoms from then until late fall. The heart-shaped foliage is bright green and not affected by insect pests.....	Pkt. 10	Oz. 50
Darkness. Identical in every way with the above, except in color, which is a rich purple-violet.....	10	50
Lablab, Mixed	10	40

DORONICUM

Caucasicum. An old favorite hardy perennial which should have a place in every hardy border. The handsome, yellow, daisy-like flowers are sometimes 2 to 3 inches across. Height 2 feet. Pkt. 25 cts.

ECHINOPS (Globe Thistle)

Ritro. Striking hardy perennial plants, with handsome, silvery, thistle-like foliage and fine steel-blue flowers in round heads, which can be used for cutting. Excellent for the back of the hardy border. Height 3 to 5 feet. Pkt. 10 cts., 1/4oz. 50 cts.

ECHINOCYSTIS (Wild Cucumber Vine)

Lobata. One of the quickest-growing annual vines we know of; splendid for covering trellises, old trees, fences, etc. Clean, bright green foliage and sprays of white flowers during July and August. Pkt. 10 cts., oz. 50 cts.

ERIGERON (Midsummer Daisy)

Speciosus. An attractive hardy border plant, producing clear mauve, daisy-like flowers, with bright golden yellow centers. Height 18 inches. Pkt. 25 cts., 1/8oz. \$1.25, 1/4oz. \$2.

ERINUS

Alpinus. A dainty little hardy perennial plant with pale purple flowers, suitable for the rock-garden, growing in the crevices of stone walls, etc. Height 2 inches. Pkt. 25 cts., 5 pkts. \$1, 1/8oz. \$5.

Alpinus, Magenta. This variety grows about 6 inches high and is covered with brilliant magenta-red flowers. Especially adapted for rock-gardens. Pkt. 25 cts., 5 pkts. \$1.

ERYNGIUM (Sea Holly)

Amethystinum. Handsome, ornamental hardy plants, growing 2 to 3 feet high, with finely cut, spiny foliage and beautiful, thistle-like heads of amethystine blue; fine for winter bouquets. Pkt. 15 cts., 1/8oz. \$1.

Planum. Steel-blue flowers. Height 2 feet. Pkt. 25 cts.

ERYSIMUM (Hedge Mustard)

Orange Beauty. A hardy annual of the easiest culture, producing its orange-yellow flowers a few weeks after seed is sown. Height 2 feet. Pkt. 15 cts., oz. 50 cts.



Euphorbia variegata. See page 45



Dolichos (Hyacinth Bean)

EUPATORIUM (Thoroughwort)

Strong-growing, hardy perennials, well suited for naturalizing and deserving of a place in every hardy border. They will grow and thrive in any location.

Fraseri. A very pretty dwarf variety, producing clusters of snow-white flowers, fine for cutting and bouquets. 1 1/2 feet. Pkt. 15 cts., 1/8oz. 60 cts., 1/4oz. \$1, oz. \$3.50.

Purpureum. A striking variety, growing 6 to 8 feet high, with heads of purple-blue, daisy-like flowers from August to October. Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50, oz. \$5.

ESCHSCHOLTZIA (California Poppy)

Profuse-blooming annuals for beds, edging, or masses, blooming from early summer to frost.

	Pkt.	1/4oz.
* Carmine King. Beautiful shade of carmine-rose....	\$0 10	\$0 50

Fringed Yellow. A deep pure yellow, the petals deeply cut and fringed.....	10	50
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* Geisha. Rich golden orange inside, orange-scarlet outside.....	10	50
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* Golden West. Bright yellow, dark orange at the base of the petals.....	10	50
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Lovely. A lovely tone of bright rose-pink suffused with salmon. The blooms have a satiny appearance.....	10	50
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Purple Glow. Undoubtedly the greatest advance that has been made in Eschscholtzias. It is a bright reddish purple, the darkest shade that has been obtained so far.....	10	50
--	----	----

* Scarlet Beauty. Petals deep scarlet inside, lighter on outside.....	10	50
--	----	----

Tango. Bronze overlaid with terra cotta.....	10	50
---	----	----

* Vesuvius. Rich coppery red which glistens in the sunlight.....	10	50
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S. & W. Co.'s Choice Mixture. We have prepared a mixture of named sorts covering all the colors in this pretty annual.....	10	50
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COLLECTION OF CALIFORNIA POPPIES: Pkt. each of varieties marked (*) above, with the Giant Tulip Poppy (Hunnemannia), 6 varieties in all, 50 cts.; 1/4oz. each of these varieties, \$2.50.



Four o'Clocks

EUPHORBIA

Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders. The flowers are inconspicuous; the foliage, however, is exceedingly ornamental.

Variegata (Snow-on-the-Mountain). Attractive foliage, veined and margined with white. 2 feet. Pkt. 10 cts., 1/4oz. 25 cts.

Heterophylla (Annual Poinsettia). An annual which resembles in color the beautiful hothouse poinsettia. The plants grow 2 to 3 feet high, of branching, bush-like form, with smooth, glossy green leaves which about the middle of the summer, turn to a beautiful orange-scarlet, presenting a striking and brilliant appearance. Pkt. 15 cts., 1/8oz. 50 cts.

EVERLASTING FLOWERS. See page 71.

FOUR O'CLOCK (Mirabilis)

Well-known, free-flowering plants. Called Four o'Clock because they open their blossoms at that hour in the afternoon; also called Marvel of Peru. Hardy annuals. 2 feet.

Fine Mixed. All colors. Pkt. 10 cts., oz. 50 cts.

GEUM (Avens)

Atrosanguineum fl.-pl. Beautiful hardy perennial, bearing Pkt. profusely large, showy, double, dark crimson flowers all through the summer; an elegant flower for bouquets... 1/4oz. 50 cts., \$0 10

Lady Stratheden. Large; double; rich golden yellow. Height 1 1/2 feet 1/8oz. 75 cts., 1/4oz. \$1.25.. 25

Mrs. Bradshaw. Large, double, brilliant orange-scarlet; in flower throughout the entire summer..... 1/4oz. \$1.. 15

GAILLARDIA (Blanket Flower)

ANNUAL VARIETIES

Very showy annuals of easy culture. The flowers are borne freely and are brilliant in tone. Excellent for borders and do best if sown in May. Flower in great profusion from July to November.

	Pkt.	1/4oz.
Amblyodon. Rich blood-red. 2 feet.....	\$0 10	\$0 50
Aurea. Rich yellow. 2 feet.....	10	50
Picta Lorenziana. A mixture of various colors. The flowers are double and excellent in form.....	10	50
Picta, Indian Chief. A new variety. Fine bronzy red.	15	75
The Bride. This is a pure white selection from the Lorenziana type; very double and, like the variety mentioned above, is excellent for cutting.....	1/8oz. 50 cts...	15 75

PERENNIAL VARIETIES

The perennial varieties of this family are grown in most hardy borders. They thrive in any position or soil, require little or no protection, and take care of themselves. If sown early, they begin flowering in July, and continue to be a mass of bloom until cut down by frost; fine for cutting. Height 2 feet.

Kermesina splendens. Center rich crimson, narrow canary-yellow border. Pkt. 15 cts., 1/4oz. \$1.50.

Grandiflora compacta. A compact variety forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. In coloring the flowers are as brilliant and varied as the tall-growing sorts. Pkt. 15 cts., 2 pkts. 25 cts., 1/4oz. \$1.

Grandiflora, Copper-Red. A striking new color in this popular perennial. Pkt. 15 cts., 2 pkts. 25 cts., 1/4oz. \$1.

S. & W. Co.'s Hybrids. This strain of Hybrid Gaillardia has been obtained from a specialist who has developed a splendid type, covering only the best varieties. The flowers are as large as sunflowers. **Pkt. 25 cts., 1/8oz. 75 cts.**

GENTIANA (Blue Gentian)

Acaulis. One of the most desirable of the hardy alpine plants, growing about 4 inches high. The flowers are a rich blue. As seeds often are slow to germinate, it is advisable to soak them well before sowing. Pkt. 25 cts.

GILIA

A very graceful annual, growing about 2 feet high, with fine feathery foliage, and bearing freely, over a long season, globular heads of bloom about 1 inch across. We offer a lavender-blue and white form. A splendid annual, lasting well when cut.

Capitata. Lavender-blue. **Capitata alba.** White.

Each, pkt. 15 cts., 1/4oz. 35 cts., oz. \$1.25

GLOXINIA

S. & W. Co.'s Large-Flowered. These very remarkable Gloxinias have, by careful selection, now been so far fixed that 40 per cent of the seedlings come true. The ground-color of the large, erect, and widely opened flowers is a velvety purple-crimson, with a rosy white throat. On the often seven-lobed corolla appear more or less sharply defined bands, spots and stripes, characteristic of this new class, the latter mostly of a violet hue. **Pkt. 50 cts.**



Types of Gaillardia

GOURDS

Rapid-growing annual climbers suitable for sowing around arbors, trellises, fencing, etc. The fruits of many of the sorts are strangely shaped and quaintly marked and colored. The foliage is abundant and often curious. Grown for ornament only, though one sort—the Malabar Melon—is edible.

LARGE FRUITS

Calabash Pipe
Dipper
Dish-Cloth (Luffa)
Giant Bottle
Giant Club (5 to 6 feet long)
Hercules' Club
Sugar-Trough
Malabar Melon. Edible fruits.
Turk's Turban

SMALL FRUITS

Apple
Miniature Bottle
White Egg
Orange
Pear, two colored
Pear, striped
Spoon

Mixed Gourds. All sorts.

The above varieties and Mixed, pkt. 10 cts., oz. 50 cts.
SPECIAL COLLECTION: One pkt. each of above 16 Ornamental Gourds, \$1.25.

GYPSOPHILA (Baby's Breath)

Pretty, free-flowering annuals and perennials. Their misty white panicles are largely used for mixing with other cut-flowers.

	Pkt.	Oz.
Elegans grandiflora alba. This is an improved, large-flowering, pure white form of the annual Baby's Breath. Several sowings should be made during the season to keep up a supply.....	1/4 lb. \$1.50..	\$0 10 \$0 50
Elegans grandiflora rosea. Delicate rose.	1/4 lb. \$1.50..	10 50
Muralis. An annual sort which forms mounds of green 10 inches high, studded with little pink flowers from early in the season till frost; fine for edging.....	1/4 oz. 50 cts..	10 1 50
Paniculata. Favorite hardy perennial. White. Blooms first year if sown early. Height 2 feet.....	1/4 oz. 30 cts..	10 1 00
Paniculata fl.-pl. The new double-flowering Baby's Breath, and one of the finest hardy plants for cutting.	1/8 oz. \$1..	25



Globe Amaranth (Gomphrena)

GLOBE AMARANTH

Gomphrena

Popularly known as "Bachelor's Button." A first-rate bedding plant. The flowers resemble clover heads and can be dried and used in winter bouquets. Cornflowers and a number of other flowers are also known as Bachelor's Buttons, and in ordering it is well to order by name to prevent errors. We offer them in separate colors and in a mixture as well.

Rose White Purple Mixed
Each, pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

GODETIA

This beautiful hardy annual deserves more extensive cultivation. The plants bloom profusely and are splendid for bedding. We also recommend that those with greenhouse facilities try growing these as a pot-plant for winter decoration. We offer the single-flowering sorts, which grow about 1 foot high, and the double varieties, which attain the height of 2 feet.

	Pkt.	1/4 oz.
Duchess of Albany. Satiny white.....	\$0 10	\$0 50
Lady Satin Rose. Brilliant carmine.....	10	50
Princess of Wales. Beautiful pink.....	10	50
Sunset. Dwarf; compact; rosy carmine.....	10	50
Tall Double Pink. Beautiful salmon-pink.....	25	75
Tall Double Rose. Deep rose.....	25	75
Tall Double Carmine. Carmine.....	25	75
Tall Double Crimson. Crimson.....	25	75
Tall Double Mauve. Mauve.....	25	75
Tall Double Mixed.	25	75

GNAPHALIUM

Edelweiss

Leontopodium. Seed should be sown early and kept cool and moist.
Pkt. 25 cts.

GREVILLEA (Silk Oak)

Robusta. Very graceful greenhouse foliage plant. Height 3 to 5 feet. Pkt. 15 cts., 1/4 oz. 75 cts., oz. \$2.50.



Godetia

STUMPP & WALTER CO.'S SELECTED SEEDS

GYPSOPHILA, continued

- Acutifolia.** A strong-growing hardy perennial sort, 3 to 4 feet high, with large panicles of small white flowers in July. Pkt. 1/4oz. \$0 10 \$0 50
Repens. A dwarf, white-flowered hardy perennial that is fine for rockwork. Pkt. 15 75
Repens rosea. Same as above, but has pink flowers. Pkt. 15 1 00

HELENIUM (Sneezewort)

Hardy perennial; blooms in late summer; useful in the hardy border; very free-blooming. Height 5 feet. Pkt.

- Autumnale superbum.** Golden yellow. Pkt. \$0 15
Riverton Beauty. Lemon-yellow. 1/4oz. \$1. 25
Riverton Gem. Wallflower-red. 1/4oz. \$1. 25

HELIANTHUS (Sunflower)

Much-prized annuals and perennials for cutting; the tall sorts are largely used in the perennial border; the dwarf sorts make good edgings to the tall.

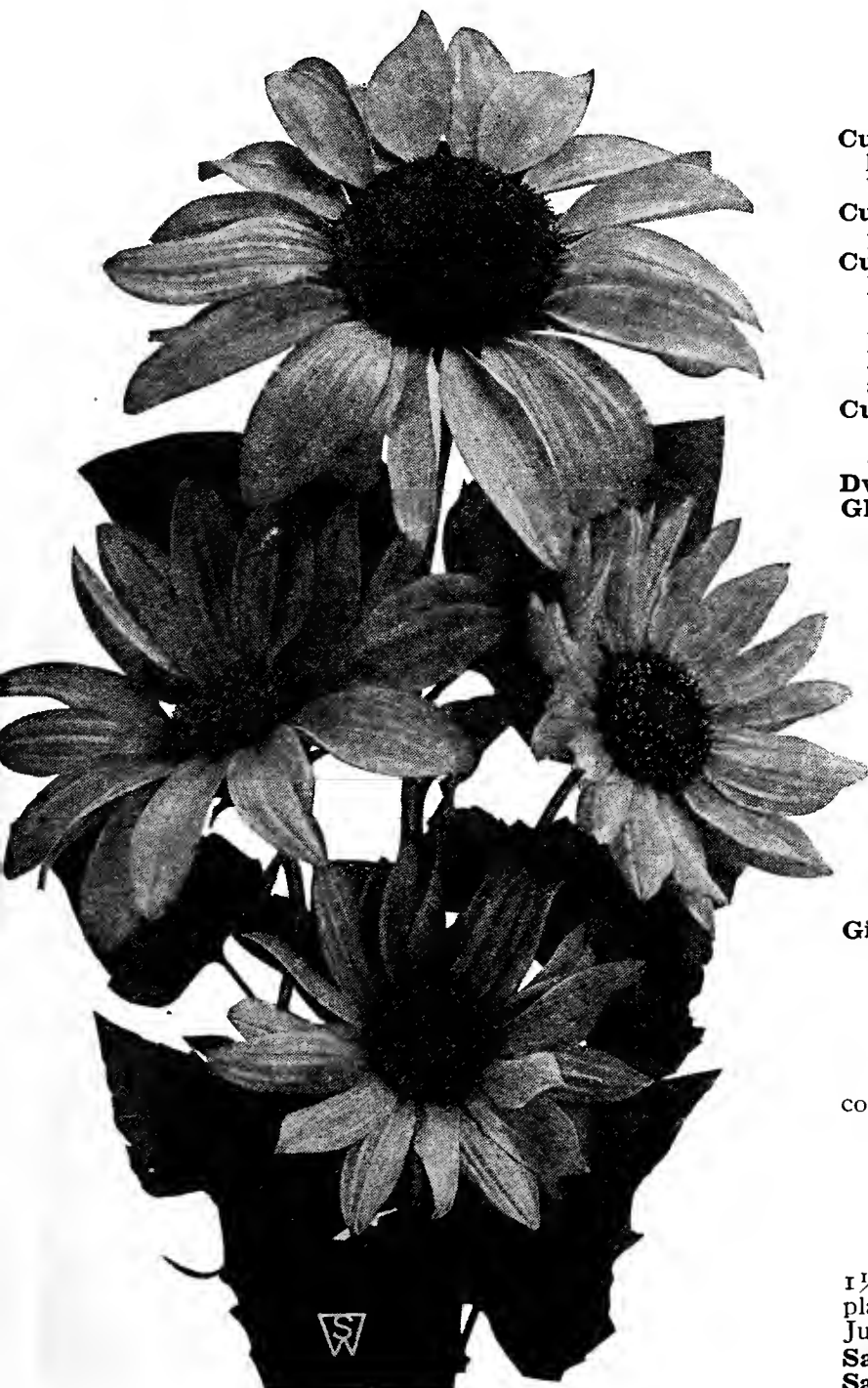
ANNUAL SUNFLOWERS

The annual sorts of Sunflowers are indispensable for cutting. Sown in a sunny location in April or early May, they come to bloom early in the summer and flower continuously until cut down by frost.

- Cut-and-Come-Again, Mixed.** A mixture of the tall-grow- ing, large-flowering types for cutting. Pkt. 1/4oz. \$0 10 \$0 50
Cucumerifolius (Miniature Sunflower). Small, single, rich yellow flowers; an abundant bloomer. 4 feet. Pkt. 10 30



Gypsophila elegans grandiflora alba. See page 46



Sunflowers

- Cucumerifolius, Stella.** Different from the above with its larger and better-formed flowers of purest golden yellow with black center. Pkt. 1/4oz. \$0 10 \$0 35
Cucumerifolius, Orion. A new variety of the Stella. The petals are twisted like a cactus dahlia. Pkt. 10 35
Cucumerifolius, Perkeo. A charming dwarf variety of the Miniature Sunflower. The plants form compact bushes about 12 inches high by 14 inches through. There are many positions, such as the front of borders or beds of plants of medium height, where this can be used to good advantage, flowering as it does from the end of June until cut down by hard frost. Pkt. 10 35
Cucumerifolius fl.-pl. The double-flowering form of the popular Miniature Sunflower. The flowers, while double, are quite free and graceful; of a bright golden yellow. Pkt. 15 50
Dwarf Double (Globe of Gold). Dwarf; double; yellow. 4 ft. Pkt. 10 35
Globosus fistulosus (Globe or Dahlia Sunflower). Flowers large, double and of a rich saffron. 6 feet. Pkt. 10 30
Gigantic Russian. The large-flowering Russian variety. Oz. 10 cts., 1/4lb. 25 cts., 1/2lb. 40 cts., lb. 75 cts.

HARDY SUNFLOWER

Perennial Sorts, Mixed. A mixture of the best perennial varieties carefully selected. Pkt. 25 cts.

HELIOPSIS

Pitcheriana (Orange Sunflower). Valuable hardy perennial for the border, thriving in any good soil. Flowers cup-shaped, deep yellow, on long, stiff stems. 3 to 4 feet. June to October. Pkt. 10 cts., 1/4oz. 75 cts.

HERACLEUM

Giganteum. A giant, hardy perennial plant, useful for the wild garden, for large open spaces, or on lawns where a bold and striking object is desired. Should not be allowed to seed. Pkt. 15 cts., oz. 50 cts.

HESPERIS (Sweet Rocket)

Favorite hardy perennials. The plants form large clumps 2 to 3 ft. high, covered with showy spikes of flowers resembling stocks. Splendid cut-flowers.

Matronalis, Red. **Matronalis, White.**
 Each, pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50

HEUCHERA (Alum Root or Coral Bells)

Most desirable, dwarf, compact, bushy plants of easy culture, growing 1 1/2 to 2 feet high, and bearing graceful spikes of flowers. Excellent hardy plant for the border or rock-garden. Splendid for cutting. Blooms during July and August.

Sanguinea. Coral-red. **Sanguinea alba.** White.
Sanguinea gracillima rosea. Carmine-rose.
 Any of the above, pkt. 15 cts., 2 pkts. 25 cts., 1/8oz. \$2, 1/4oz. \$3.50

HELIOTROPE

A half-hardy perennial, flowering during the whole season. Its delightful perfume makes it a most desirable bouquet flower. A splendid bedding plant, or can be trained as a greenhouse climber. Seed started indoors in the spring will make fine plants for summer blooming. Can also be sown outdoors in May.

Lemoine's Giant. Of robust growth and produces heads of flowers double the size of the old sorts; mixed colors.....	Pkt. 1/4oz.	\$0 15	\$1 50
Queen Marguerite. Large; dark blue.....	10	1 00	
White Lady. Largest white.....	10	1 00	
Mixed. All colors of the regular type.....	10	75	

HELICHRYSUM

Straw Flower

One of the best and most popular of the "Everlastings." Annual. Very effective double flowers, making a fine display in beds or borders. To produce excellent plants thin out to 2 feet.

Rose Queen	Snowball	Salmon Queen
Golden Ball	Fireball	Violet Queen
	Mixed	

Each, pkt. 10 cts., 1/4oz. 35 cts., oz. \$1.25

SPECIAL COLLECTION: One pkt. each of 6 separate colors, 50 cts.

HOLLYHOCKS

One of the most popular of hardy garden plants. The beautiful color effects produced by the planting of these flowers, combined with their dignified and stately appearance, render them indispensable for either the old-fashioned garden or the well-planned herbaceous border. As a background for other flowers or planting among shrubbery, they are without an equal. As the plants are affected with rust occasionally, we recommend frequent spraying in springtime with "Semesan."

New Hollyhock, Double Exquisite. A new strain of Hollyhock which will prove a delight to all those who enjoy this old-fashioned flower in an entirely new form. The large blooms are beautifully fringed and frilled or deeply dentate, and the colors are charmingly fresh and bright. They are so well placed on tall, stately spikes that much of the stiff effect to be noted in the older types is entirely lacking in this truly exquisite new strain. Contains a fine selection of colors. **Pkt. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50, oz. \$7.50.**

CHATER'S SUPERB DOUBLE

Chamois	Newport Pink	Scarlet
Deep Rose	Pure White	Sulphur-Yellow
Maroon	Salmon-Rose	Superb Mixed

Each, pkt. 15 cts., 4 pkts. 50 cts., 1/4oz. 75 cts., oz. \$2.50

S. & W. Co.'s Double Mixed. This is an excellent strain. The selection has been made with great care from the strongest plants and brightest colors. **Pkt. 15 cts., 1/8oz. 75 cts.**

CHATER'S SUPERB SINGLE

Pink	Apricot	Yellow	White
Crimson	Lilac	Purple	Mixed

Each, pkt. 15 cts., 4 pkts. 50 cts., 1/4oz. 75 cts., oz. \$2.50

S. & W. Co.'s Single Mixed. Pkt. 10 cts., 1/4oz. 50 cts.

HUMULUS (Japan Hop)

A rapid summer climber which in three to four weeks' time attains a height of 20 to 30 feet, resembling the common Hop, but, being an annual, attains full perfection the first season. The foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc., producing grateful shade and being very ornamental. Heat, drought and insects do not trouble it.

	Pkt.	1/4oz.	1/2oz.	Oz.
Japonicus	\$0 10	\$0 30	\$0 50	\$0 75
Variegatus. Variegated variety.....	10	50	75	1 25

HELIANTHEMUM (Sun Rose)

One of the most beautiful perennials suitable for the rock-garden. Height 1 foot.

Mixed. Including Yellow, Red, White, and Pink. Pkt. 25 cts.

HIBISCUS (Marshmallow)

Showy, ornamental plants, for mixed beds or shrubbery borders. Hardy perennial, but will bloom first year from seed if sown early.

Moscheutos (Swamp Rose Mallow). Flowers 6 inches in diameter; of light rosy red, with dark center..... \$0 10

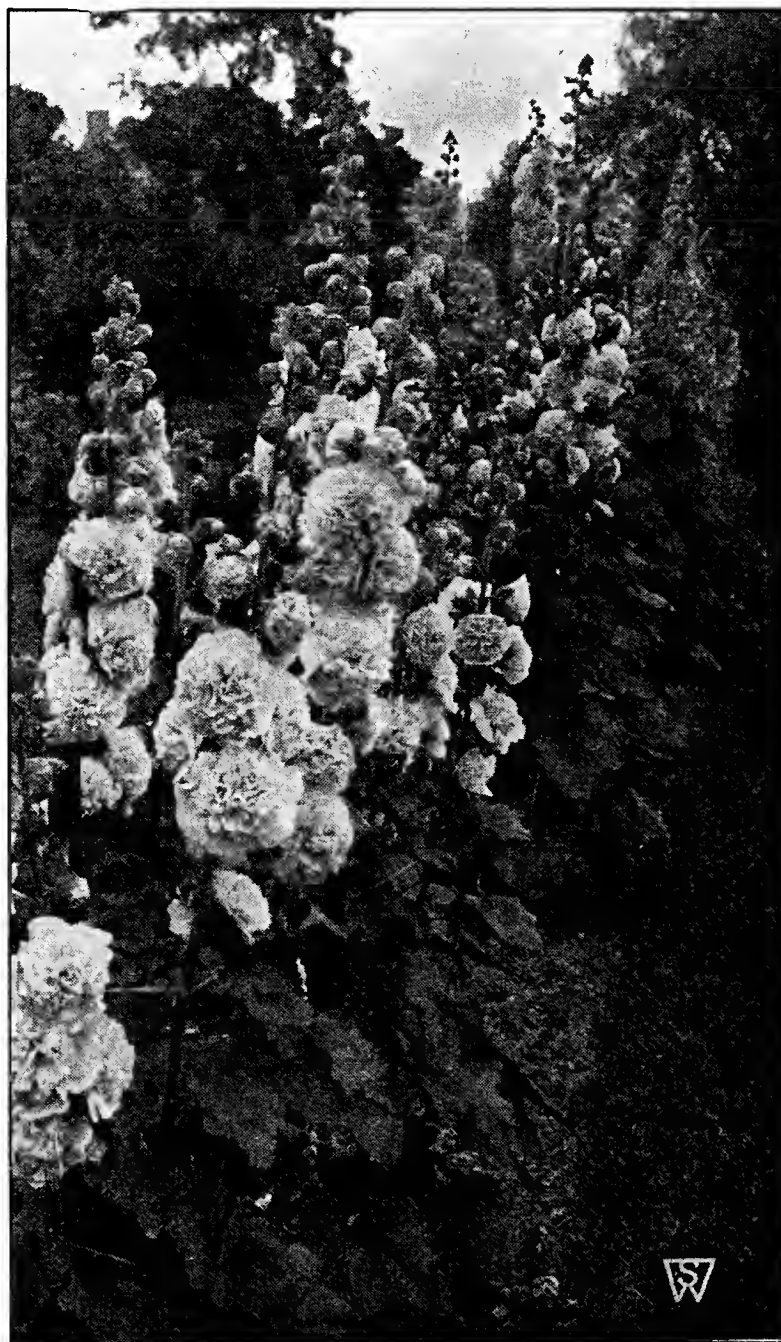
Golden Bowl. Giant yellow, cup-shaped flowers, from 6 to 9 inches in diameter; of rich cream, with velvety maroon center. The plants commence to bloom early and continue until cut down by frost..... 10

Crimson Eye. Fine for borders and groups; color white, with crimson center; flowers very large..... 10

Mallow Marvels, Mixed. Flowers of enormous size in splendid shades of Crimson, Pink, and White, mixed..... 15
1/4oz. 75 cts., oz. \$2.50..

HONESTY (Moonwort)

Hardy biennial, admired for its silvery seed-pouches, which are used for house ornaments; beautiful and curious purple flowers. Sow seed in open in May and protect over winter. 2 feet. **Pkt. 10 cts., 1/4oz. 50 cts.**



Chater's Superb Double Hollyhocks

STUMPP & WALTER CO.'S SELECTED SEEDS

HUNNEMANNIA

(Giant Yellow Santa Barbara Tulip Poppy; Bush Eschscholtzia)

Fumariaefolia. This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. Pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50.

HYPERICUM (St. John's-Wort)

Polyphyllum. A dwarf, hardy perennial with large, golden yellow flowers and almost evergreen foliage. Suitable for the rock-garden. Pkt. 25 cts.

IMPATIENS

Sultani. One of the most beautiful of decorative plants. It thrives in stove heat, greenhouse, and in open border during the summer. The flowers are of a brilliant rosy scarlet, 1½ inches in diameter. Mixed. Pkt. 25 cts.

Holstii. A very handsome plant from East Africa, forming bushes 1½ to 2 feet in height, with brilliant scarlet flowers, which measure from 1¼ to 1½ inches across. It is an elegant pot-plant, also valuable for bedding out in partial shade. **Pkt. 25 cts.**

INCARVILLEA

Delavayi. Hardy perennial. Rather new; originated in northern China, and is one of the prettiest perennials known. It produces divided pale green leaves about 2 feet in length, much like acanthus. The flowers are borne on long, stout stems, tube-shaped, and appear almost like gloxinias. Color bright rose. 2½ feet. June to August. Pkt. 25 cts.

Variabilis Hybrids. This hardy perennial blooms the first season if sown early. The tube-shaped flowers are white and various shades of pink and yellow. Pkt. 25 cts.

IPOMCEA (Morning-Glory)

Climbers of rapid growth, with beautiful and varied flowers. For covering walls, trellises, arbors, or stumps of trees they are invaluable.

Bona-nox (Evening-Glory). Rosy lilac flowers, expanding in the evening; of very rapid growth. Pkt. 10 cts., oz. 75 cts.

Grandiflora mexicana alba (Moonflower). At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers, 5 to 6 inches in diameter. It grows rapidly and will cover a large surface. Pkt. 10 cts., oz. 75 cts.

Hederacea grandiflora superba. Sky-blue, margined white. Pkt. 10 cts., oz. 50 cts.

Hederacea grandiflora superba alba. White. Pkt. 10 cts., oz. 50 cts.

Leari. Dark blue. Pkt. 15 cts., 2 pkts. 25 cts.

Rubra cærulea (Heavenly Blue). Immense flowers of bright sky blue, very beautiful. Pkt. 15 cts., 2 pkts. 25 cts. ½oz. \$1.25, oz. \$2.

Setosa (Brazilian Morning-Glory). Flowers of pleasing rose-color, borne very freely, in large clusters, from August to frost. As a quick-growing vine it has no equal, covering an enormous space in a short time. Pkt. 10 cts., oz. \$1.

Mixed Imperial Japanese (Emperor Morning-Glory). These are beyond question the handsomest of all Morning-Glories. Of the easiest culture; can be sown in the open ground in a sunny situation when the weather has become warm and settled. They soon cover a large area, and even before flowering are decidedly interesting on account of the varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description. The colors range from snow-white to black-purple, and many have the flowers spotted, marbled, striped, flaked, splashed, etc. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.50.

Tall or Climbing Convolvulus, Mixed. Pkt. 10 cts., oz. 30 cts.

Dwarf Bedding Convolvulus, Mixed. Pkt. 10 cts., oz. 30 cts.

For other varieties of Ipomœas, see Cypress Vine

KOCHIA (Summer Cypress; Mexican Firebush)

Trichophylla. A pretty half-hardy annual, 2 to 3 feet in height, which grows into a perfect pyramidal-shaped cypress bush, with small, feathery, light green foliage, deepening as the season advances until it becomes a lovely crimson hue about September. Excellent for edging or hedging. Pkt. 10 cts., ¼oz. 25 cts., oz. 75 cts.

LANTANA

One of the most desirable half-hardy greenhouse or bedding plants, which bloom constantly. The flowers are borne in Verbena-like heads of orange, white, rose, etc. Mixed colors, pkt. 25 cts., ¼oz. \$1, oz. \$3.50.

LATHYRUS (Everlasting or Hardy Sweet Pea)

Hardy climbers, growing 6 to 8 feet high when trained on a trellis. The flowers are borne in large clusters. They are peculiarly adapted to rough places, to scramble over rocks and bushes; splendid cut-flower.

White.

Delicata. Rosy flesh-color.

Red.

Mixed Colors.

Each, pkt. 10 cts., ½oz. 40 cts., oz. 75 cts.

LAVENDER

Lavandula vera. Well-known, hardy perennial; sweet-scented; should be grown extensively in mixed borders. Height 3 feet. Pkt. 10 cts., ¼oz. 50 cts.



Kochia trichophylla



Imperial Japanese Morning-Glory (Ipomœa)

ANNUAL LARKSPURS

These are among the best-known garden flowers, and in recent years a vast improvement has been effected by careful selection in size and color of the blossoms and the general habit of the plant. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from then until frost, a record that is not surpassed by any other annual. They make handsome beds or lines, and their free, graceful habit and bright colors are very effective when interspersed in the old-fashioned flower or shrubbery border.

DOUBLE STOCK-FLOWERED

This is the finest variety of this very popular annual, with beautiful double flowers. Height 2½ to 3 feet.

Snowstorm. Pure white.

Stella. Sky-blue.

Loveliness. Shell-pink.

Attraction. Bright rose.

King of the Blues. Dark blue.

Violet Queen. Violet.

Lilac Perfection. Lilac.

Tricolor. Variegated.

Exquisite. Soft pink; very beautiful

Defiance. A decided improvement over the Newport Scarlet.

This Larkspur is of the same habit as our Double Stock-flowered; the plants, however, are a trifle taller in growth.

Each, pkt. 15 cts., ¼oz. 50 cts., oz. \$1.50

COLLECTION: One pkt. each of the above 10 varieties \$1

Tall Stock-flowered, Mixed. A select mixture of our famous strain. Pkt. 10 cts., ¼oz. 30 cts., oz. \$1.

Dwarf Stock-flowered, Mixed. Finest double flowers. Mixed. 1½ to 2 feet. Pkt. 10c., ¼oz. 30c., oz. \$1.

S. & W. Co.'s Emperor

This grand type of Annual Larkspurs grows about 2 feet high and is of candelabra habit. When planted in borders of the flower-garden the plants will prove most effective.

Apple-Blossom

Brilliant Rose

Black-Blue

Azure-Blue

Violet

White, Striped

Brilliant Carmine

Pink Delight

Dark Blue

Pure White

Pkt. 10 cts., ¼oz. 30 cts., oz. \$1

COLLECTION: One pkt. each of the above 10 varieties, 75 cts.

LAVATERA (Annual Mallow)

Trimestris grandiflora rosea. A very beautiful and showy annual, growing about 2 feet high and covered during the entire summer with large, cup-shaped salmon-pink flowers; for beds or borders they are very effective. Sow seed in May where they are to bloom and later thin the plants out to 1 foot apart. Pkt. 10c., ¼oz. 50c.

LEPTOSYNE

Maritima. Rich golden yellow flowers on long stems; will bloom in six weeks. Pkt. 15 cts., ¼oz. \$1.

LIATRIS (Blazing Star; Gay Feather)

Pycnostachya. A very attractive, native, hardy perennial. The purple and rosy purple flowers are borne on long spikes. Excellent for cutting. 3 to 4 feet. July to September. Pkt. 25c., ¼oz. \$1.50.



S. & W. Co.'s Double Stock-flowered Larkspur

LINARIA

Cymbalaria (Kenilworth Ivy). Lavender and purple. A charming, neat, hardy perennial trailing plant, suitable for baskets, vases, pots, or rockeries. Pkt. 15 cts., 2 pkts. 25 cts.

Macedonica speciosa. Yellow. Height 3 feet. Pkt. 25 cts.

Maroccana, Excelsior. Annual. An erect type, growing a foot high. A mixture of colors—white, purple, and violet. Pkt. 15 cts., ¼oz. 60 cts., ¼oz. \$1.

LILIES from Seed

Most Lilies will produce flowers the second year from seed. In other words, give them the same treatment as other hardy perennials.

Martagon Hybrids (Turk's-Cap Lily).

Martagon album (White Turk's-Cap Lily).

columbianum (Columbia Lily).

monadelphum szovitzianum (Great

Caucasian Lily).

Washingtonianum (Washington Lily).

dalmaticum Hybrids.

giganteum (Himalaya Lily). 14 ft.

Any of the above, pkt. 50 cts., 5 pkts. \$2

regale (The Royal Lily). Pkt. 25 cts., ¼oz. \$1.

LINUM (Flax)

Grandiflorum rubrum (Scarlet Flax).

One of the most effective and showy hardy annuals; bedding plants, of long duration, having fine foliage and delicate stems; brilliant scarlet flowers. Height 1 foot. Pkt. 10 cts., ¼oz. 25 cts.

Perenne. Bright blue. Height 1½ feet.

Pkt. 10 cts., ¼oz. 35 cts.

Perenne album. White. Height 1 foot.

Pkt. 10 cts., ¼oz. 35 cts.

LOBELIA

These bloom very quickly from seed and flower all through the season. For beds, edgings, baskets, and pots there is nothing prettier. Sow outdoors in early spring, where the plants are to grow, and thin moderately; or transplant several inches apart in rich, open soil. Almost all are also good winter conservatory plants of trailing habit. The perennial or tall varieties are handsome, showy plants.

Barnard's Perpetual. Deep blue with white eye; trailing. Pkt. 10 cts., ¼oz. \$1.

Crystal Palace Compacta. Rich deep blue; dark foliage. The finest variety for bedding. Pkt. 10c., ¼oz. \$1.25, ¼oz. \$2.

Emperor William. A very compact variety with sky-blue flowers. Pkt. 10 cts., ¼oz. \$1, ¼oz. \$1.50.

Lindleyana. Rose, with white eye; trailing. Pkt. 10 cts., ¼oz. \$1.

Pumila splendens. Dark blue, with clear white eye; compact. Pkt. 10 cts., ¼oz. \$1.50.

Pumila alba. Pure white. Pkt. 10 cts., ¼oz. \$1.50.

Speciosa. Dark blue; dark foliage; trailing. Pkt. 10 cts., ¼oz. \$1.

Lobelia tenuior compacta, Improved

This handsome annual has hitherto hardly received the attention it deserves. The imported strain, which we now offer, grows 8 to 9 inches high, is of erect, elegant habit, and thickly covered with large, dark blue flowers having a distinct white eye. As it remains a long time in bloom, it is a very effective plant for summer bedding. **Pkt. 25 cts., 5 pkts. \$1.**

HARDY VARIETIES

Tall-growing, hardy perennials with long spikes of brilliant flowers, unrivaled for permanent beds and borders. 2 to 4 feet. Pkt. ½oz. \$25

Cardinalis (Cardinal Flower). Scarlet; green foliage. \$0 25 \$3 50

Queen Victoria. Brilliant scarlet; bronze foliage. 50



New Giant-Flowering VERBENAS

These very charming annuals, useful for edging flower borders or for bedding in mass effect, have been greatly improved by plant-breeders this past ten years. The strain we are offering is equal to our Mammoth Verbenas in the number of flowers to each truss, and has the added advantage in that the individual florets are larger—frequently under good cultivation measuring one inch in diameter. The small central eye, a characteristic of this hybrid type, makes it a distinct advance over the older varieties of this splendid, easily grown annual flower. The plants attain a height of 1 foot, and, if sown outdoors early in May, may be had in bloom by July.

Special Offer: Four Distinct Varieties

1. WHITE KING. Pure white.
2. SALMON-PINK. Pure, even tone of salmon-pink.
3. ROYALE. Royal blue, primrose-yellow eye.
4. ETNA. Vivid scarlet with small yellow eye.

Each, pkt. 20 cts., 1/8 oz. 60 cts., 1/4 oz. \$1, oz. \$3.50

Collection: One pkt. each of 4 distinct varieties **50c**

S. & W. Co.'s

Dahlia- flowered Zinnias



ZINNIAS

NEW DOUBLE DAHLIA-FLOW-ERED. The plants attain the height of 3 feet, producing mammoth flowers averaging 6 inches across by 3 to 4 inches in depth, similar in shape to the decorative dahlia, with the same fullness of the petals. The huge flowers keep well when cut.

1. **BUTTERCUP.** Very large flowers of deep creamy yellow.
2. **SCARLET FLAME.** Bright scarlet, blended with orange.
3. **EXQUISITE.** Light rose, with deep rose center.
4. **ORIOLE.** A striking two-color flower—orange and gold.
5. **DREAM.** Deep lavender-blue—a remarkable shade.
6. **CRIMSON MONARCH.** Immense flowers of flaming crimson.

Each, pkt. 15 cts., 1/4oz. 60 cts., oz. \$2

Special Offer Collection

One pkt.
each of above
6 colors,

75c.

THE Zinnia has, perhaps, gained more steadily in popularity than any of our annuals because of the interest taken in it by plant-breeders who have tried to excel one another in improving existing forms and bringing new ones each year to the attention of the flower-lover. We are offering some of the newer forms which will soon, we feel sure, become popular in your gardens. Few, if any, of the annuals have greater utility value. In the mixed border they may

be had in bloom from early summer until cut down by frost, and they are splendid also when used as a cut-flower for house decoration. In order to get best results, seed should be sown either indoors in a sunny window and the plants transplanted to the garden early in May, or started outdoors and plants transplanted later. Leave at least 2 feet between plants as they are robust growers and need sufficient space to attain maximum development.

STUMPP & WALTER CO.'S SELECTED SEEDS

LUPINUS (Lupine)

This very interesting class of plants is of easy culture and produces beautiful leaves and pea-shaped flowers. It should be more generally cultivated. The annual varieties may be sown out in the open in May and as plants grow, thin out, leaving about 1 foot between the plants.

ANNUAL VARIETIES

Rich Blue White Rose Yellow Mixed
Each, pkt. 10 cts., 1/2oz. 25 cts., oz. 50 cts.

LUPINUS POLYPHYLLUS (Hardy Perennial)

Sow during summer to bloom from June to September of the following year, preferably where they are to flower as they do not transplant well. Partly shaded, rich soil, free from lime, is advised.

S. & W. CO.'S SPECIAL GRANDIFLORA HYBRIDS

We offer exclusively a 5-foot high strain of exceptional merit, and one which includes many new and specially bright colors. The plants are robust and decidedly larger than those of the usual strains of *Lupinus polyphyllus*.

S. & W. Co.'s Special Grandiflora, White.
S. & W. Co.'s Special Grandiflora, Pink Shades.
S. & W. Co.'s Special Grandiflora, Red Shades.
S. & W. Co.'s Special Grandiflora, Blue Shades.
S. & W. Co.'s Special Grandiflora, Mixed Hybrids.

Each, pkt. 15 cts., 1/4oz. 35 cts., oz. \$1

Golden Spire. The tall, stately spikes of rich golden yellow flowers make this subject a fitting companion to the blue types of *L. polyphyllus*. Pkt. 25 cts., 1/4oz. \$2.

Downer's Hybrids. A special strain of hardy Lupines. Flowers are large, with an exceptionally fine color range. Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.

LYCHNIS

Handsome hardy perennial plants of easy culture, for massing in beds or borders, blooming first year from seed if sown early.

Alpina. Splendid dwarf variety for rock-gardens, growing Pkt. 1/2oz. 1/4oz.
but 6 inches high. Rose-colored blooms in June. \$0 25 \$2 50 \$4 50
Arkwrighti Hybrids. New improved strain, growing 2 1/2
feet high. Mixed colors. 25 75 1 25
Chalcedonica. Scarlet. 2 feet. 10 50
Chalcedonica, Salmon Queen. Salmon. 2 feet. 10 50
Haageana. Orange-scarlet. 2 feet. 10 75 1 25
Viscaria. Rose. 1 1/2 feet. 10 50
Viscaria splendens. Scarlet. 1 1/2 feet. 10 50

MARIGOLD

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders; the latter are dwarfer in growth, with beautifully striped flowers, and are better suited for bedding purposes and for pot culture.

DOUBLE AFRICAN

***Giant Show Lemon.** This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2 1/2 feet. Pkt. 25 cts., 1/4oz. \$1.

***Giant Show Orange.** The darker form of the preceding variety. Height 2 1/2 feet. Pkt. 25 cts., 1/4oz. \$1.

Giant Show Mixture. Yellow and orange shades. Pkt. 25 cts., 1/4oz. \$1.

Eldorado. Flowers very large, imbricated, and extremely double, in all shades of yellow. Pkt. 10 cts., 1/4oz. 40 cts.

Lemon Quilled. Deep, double, lemon-yellow flowers, daintily quilled. Pkt. 10 cts., 1/4oz. 50 cts.

Orange Quilled. Similar to above but orange-yellow. Pkt. 10 cts., 1/4oz. 50 cts.

DWARF FRENCH

They form compact bushes 1 foot high, excellent for borders or beds.

Brunea. Double, quilled flowers of rich brown with a narrow thread-like edge of yellow.

***Golden Ball.** Double, pure golden yellow.

***Legion of Honor (Little Brownie).** A charming single-flowering Marigold forming dense, compact bushes about 9 inches high. They begin to bloom in June and continue until frost. The flowers are golden yellow marked with a large blotch of velvety crimson at the base of each petal.

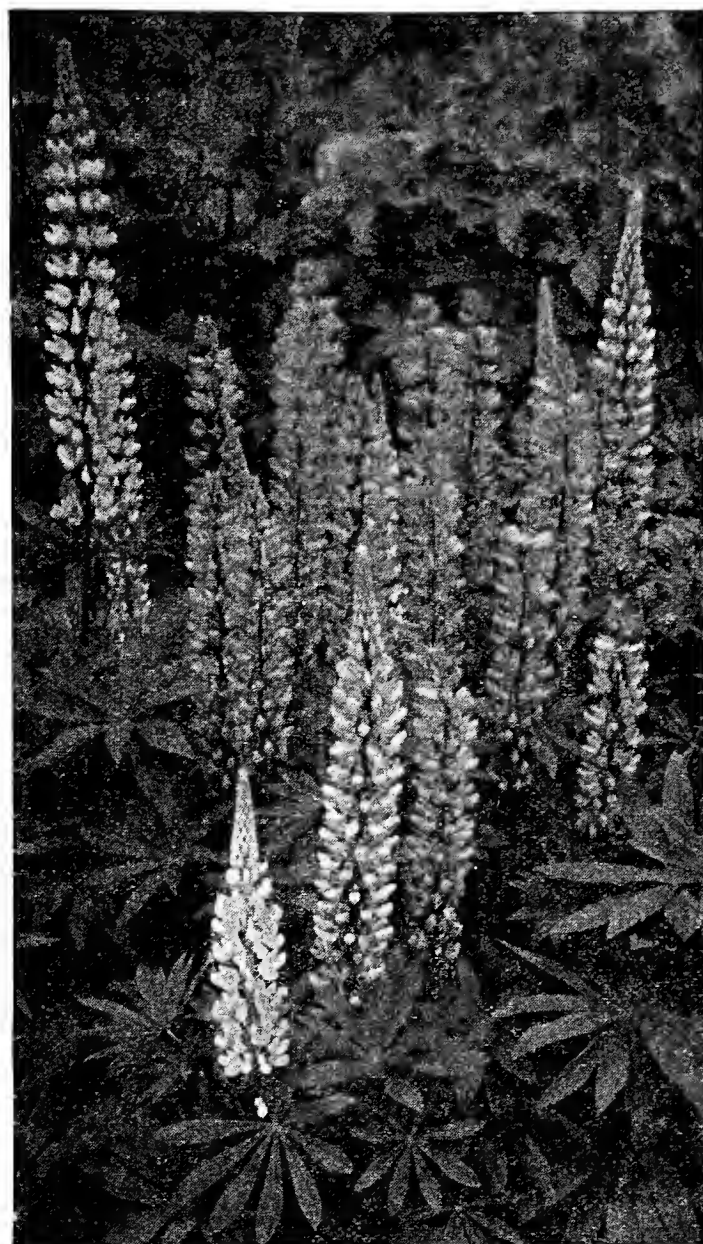
***Lemon Ball.** Double lemon-yellow flowers.

***Mahogany.** Double, rich velvety mahogany-brown blooms.

Each, pkt. 15 cts., 1/4oz. 75 cts.

SPECIAL COLLECTION: One pkt. each 6 Marigolds marked *, \$1

Mixed French Marigolds. All shades. Pkt. 10 cts., 1/4oz. 50 cts.



Lupinus polyphyllus

LYTHRUM

Loosestrife

Salicaria roseum superbum. Striking hardy perennial with rose-colored flowers from July to September. Height 3 feet. Pkt. 15 cts.

Virgatum. Rosy purple. Height 3 feet. Pkt. 25 cts.

MALVA

	Pkt.	1/4oz.	Oz.
Alcea (Hollyhock Mallow). Pink.	\$0 10	\$0 50	\$1 50
Moschata	10	50	1 50
Moschata flore-albo	10	50	1 50

MATTHIOLA

Evening-scented Stock

Bicornis. This old-fashioned annual has no beauty to recommend it, the flowers being a dull purplish lilac, but it is well worth growing for the entrancing fragrance which it emits during the evening. 1 ft. Pkt. 10 cts., 1/4oz. 50 cts.

MAURANDIA

Rapid-growing, half-hardy perennial climbers that can be treated as annuals. Fine for garden or greenhouse; bloom all summer in hanging-baskets and vases or on trellises. 10 feet.

	Pkt.	1/4oz.
Barclayana. Blue.....	\$0 15	\$1 75
Barclayana alba. White.....	15	2 25

MATRICARIA (Feverfew)

Grandiflora fl.-pl. eximia. Half-hardy perennial, which should be treated as an annual. Double, pure white flowers are borne on slender stems 15 inches high, which are excellent for cutting. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Golden Ball. Compact-growing variety with golden yellow flowers. Excellent for bedding. 1 foot. Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.

MESEMBRYANTHEMUM

Crystallinum (Ice Plant). Dwarf, trailing annual plants; flowers pink. Prized for its singular icy foliage. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

MIGNONETTE (Reseda)

Well-known little hardy annual plants, with sweet-scented flowers; at home everywhere, either in the greenhouse, garden or sitting-room.

S. & W. Co.'s Triumph. One of the choicest varieties for winter forcing. In type similar to Allen's Defiance, except that spikes are more compact and the individual florets are much larger in size. Seed of this grand variety is grown in our greenhouses, and is saved from the best spikes. Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.75.

Allen's Defiance. This gorgeous Mignonette has qualities heretofore unknown in large flowering varieties, being deliciously fragrant. When grown under favorable conditions and with proper care, its spikes will be from 12 to 15 inches long. The individual florets are of remarkable size and stand out boldly, forming a graceful as well as compact spike. Its remarkable strength is accompanied by extraordinary keeping qualities; the spikes have been kept in a vase three weeks after cutting, retaining their grace and fragrance until every bud opened. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Improved Large-flowering. Pkt. 10 cts., 1/4oz. 25 cts.

Golden Queen. Yellow-tinted flowers. Pkt. 10 cts., 1/4oz. 25 cts.

Machet. A dwarf French variety, with broad spikes of very fragrant red flowers; one of the best varieties for either garden or pot culture. Pkt. 10 cts., 1/4oz. 50 cts.

Machet, Ruby. A fine new Machet Mignonette, with coppery scarlet flowers. Pkt. 10 cts., 1/4oz. 50 cts.

Odorata maxima, Goliath. Bears very large flowers, the center spikes being often 8 inches long. The plant grows in candelabra form and produces fiery red flowers on firm, upright stalks. Pkt. 10 cts., 1/4oz. 50 cts.

MIMOSA (Sensitive Plant)

Pudica. A very curious plant, the leaves of which instantly close up when touched. It is a tender annual, easily grown in the garden during summer. Pkt. 10 cts., 1/4oz. 50 cts.

MIMULUS (Musk Plant)

Moschatus. The plants of Mimulus are beautiful and tender-looking, with almost transparent branches. They luxuriate in damp, shady situations; musk-scented. Tender annual. 1 foot. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Splendid Annual, Mixed. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Cupreus (Monkey Flower). A hardy perennial, the flowers of which resemble somewhat the snapdragon in shape; in color, yellow at first, when fully open, copper-red. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.



S. & W. Co.'s Triumph Mignonette

MONARDA (Bee Balm; Bergamot)

Hybrida. A fine mixture of this well-known hardy perennial, growing 3 feet high, and producing various colored flowers from July to September. Pkt. 15 cts., 1/4oz. \$1.50.

MOMORDICA

Balsam Apple; Balsam Pear

Luxuriant annual climbers, with large leaves, making dense shade. The flowers are followed by ornamental, large fruits of orange or copper color, which burst and expose an interior of red, which is highly effective. 15 to 20 feet.

Balsamina (Balsam Apple). Orange fruits. Pkt. 10 cts., oz. 75 cts.

Charantia (Balsam Pear). Coppery scarlet fruits. Pkt. 10 cts., oz. 75 cts.

MORNING-GLORY. See *Ipomoea*, page 49.

MUSA (Abyssinian Banana Tree)

Ensete. A foliage plant of magnificent proportions; for subtropical massing, or as single specimens it is strikingly effective. Seeds sown early in the house will produce plants 10 to 12 feet high the first season. Pkt. 25 cts., 25 seeds 75 cts., 100 seeds \$2.50.



Matricaria (Feverfew)



Myosotis, Ruth Fischer (Forget-me-not)

MYOSOTIS

Forget-me-not

Few spring flowers are more admired than the lovely Forget-me-not, which is especially effective for mass planting. It is perennial and hardy if given slight protection through the winter. Seed may be sown from spring until midsummer. The *Alpestris* varieties and *Dissitiflora* come into bloom in April, with the spring-flowering bulbs; the *Palustris* sorts bloom in May, and continue till fall.

- | | | |
|--|--------------|--------|
| Alpestris, Royal Blue. Rich indigo-blue flowers. The finest and most effective dark blue variety; grows about 9 inches high. | Pkt. 1/4 oz. | \$0 10 |
| Alpestris robusta grandiflora. A strong, sturdy grower attaining a height of about 10 inches with good heads of clear Forget-me-not-blue flowers. | 10 | 75 |
| Alpestris, Victoria, Blue. A favorite variety with fine heads of clear azure-blue flowers; plants bushy and compact. Makes a fine edging for beds. | 15 | 1 00 |
| Alpestris, Pink. Pink type of Forget-me-not that is of value both for hardy border and pots. | 15 | 75 |
| Alpestris, White. White form of above. | 15 | 75 |
| Alpestris, Mixed. A select mixture of the above. | 10 | 50 |
| Dissitiflora. Of dwarf, compact habit with sprays of large, exquisite blue flowers, especially adapted for beds of late-flowering tulips, etc. | 15 | 2 00 |
| Palustris semperflorens (Everblooming Forget-me-not). Large, clear blue flowers in pretty sprays. | 15 | 1 00 |
| Ruth Fischer. One of the finest and largest-flowered Forget-me-nots yet sent out, producing flowers up to 1/2 inch in diameter, of true Forget-me-not-blue. Plants of strong, vigorous growth, of exceptional value for pot culture and spring bedding . . . 5 pkts. \$1, 1/4 oz. \$2.50. | 25 | 7 50 |
| Isolde Krotz. A large-flowered Myosotis. Under favorable conditions, the individual blossoms are nearly an inch in diameter. Excellent both for greenhouse use and for growth in the open. | 50 | |

NICOTIANA

- Sanderæ, Crimson King.** The color of this beautiful Nicotiana is a dark, velvety crimson-red. Pkt. 15 cts., 1/4 oz. 50 cts.
- Affinis.** An annual with sweet-scented, pure white, star-shaped flowers, 3 inches across, blooming continually. 2 to 3 feet. Pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.
- Giant Red-flowered.** Magnificent annual of tropical effect; large, luxuriant leaves and immense clusters of rich crimson flowers. 5 feet. Pkt. 10c., 1/4 oz. 50c.
- Sanderæ Hybrids.** New types in a variety of colors. Pkt. 10 cts., 1/4 oz. 50 cts.

NIGELLA

- | | | | |
|---|--------------|--------|--------|
| Damascena, Double Mixed (Love-in-a-Mist). Pretty garden annuals with feathery green foliage, in which large, double, charming blue or white flowers are set. 1 to 2 feet | Pkt. 1/4 oz. | \$0 10 | \$0 30 |
| Miss Jekyll. A lovely variety with cornflower-blue blossoms; splendid for cutting. Hardy annual. About 2 feet. | 10 | 50 | |

NEMESIA

We are pleased to offer a splendid strain of this beautiful half-hardy annual, principally the large-flowered varieties and one of the dwarf, compact sorts.

- S. & W. Co.'s Orange.** Rich orange.
S. & W. Co.'s Rose. Rich rose.
S. & W. Co.'s Scarlet. Scarlet.
S. & W. Co.'s Mixed. Rich mixture of all colors.
S. & W. Co.'s Hybrid Blue Gem. A dwarf variety, very suitable for borders.

Each, pkt. 15 cts., 4 pkts. 50 cts., 1/8 oz. \$1.50

NEMOPHILA

Splendid trailing annuals for garden decoration; bright-colored flowers, in shades of blue, white, and violet. 1 foot.

- Menziesi insignis, Blue.** The largest flowering type; strong; bright blue. Pkt. 10 cts., 1/4 oz. 50 cts.
Finest Mixed. Pkt. 10 cts., 1/4 oz. 50 cts.

NEPETA (Ground Ivy)

- Mussini.** Hardy perennial with blue flowers in May and June. Height 1 foot. Pkt. 25 cts., 1/8 oz. \$1, 1/4 oz. \$1.50.

NOLANA

- Paradoxa** (*N. atriplicifolia*). A luxuriantly growing creeping annual, suitable as a ground-cover or edging plant. Sky-blue flowers almost throughout the summer. Pkt. 10 cts., 1/4 oz. 50 cts.

OENOTHERA (Evening Primrose)

Perennial

- | | | | |
|---|---------|--------|--------|
| Fraseri. Beautiful yellow flowers. July to October. Pkt. 1 1/2 feet. | 1/4 oz. | \$2.50 | \$3 50 |
| Lamarckiana. Enormous yellow flowers. July to October. 3 feet. | 10 | 50 | |
| Fruticosa Youngi. Yellow. Height 18 inches. | 25 | | |
| Missouriensis. Yellow. Height 12 inches. | 25 | | |
| Speciosa. White. Height 18 inches. | 25 | | |
| Childsii (Mexican Evening Primrose). Rose. | 15 | | |
| Clutei. Immense flowers of soft creamy yellow. 4 to 5 feet. | 25 | | |



Nigella, Miss Jekyll

Stumpp & Walter Co.'s Superb Nasturtiums

Few garden annuals respond with as little care as the Nasturtium. For ease of culture, duration of bloom, brilliancy of coloring and general excellence, they are unexcelled. All they need is a moderately good soil, in a well-drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes, there is an endless profusion of their gorgeous blossoms. The varieties offered below were selected, after exhaustive trials, from a very large number of sorts as being the best and most distinct.

NEW DOUBLE SWEET-SCENTED NASTURTIIUM (Dwarf) GOLDEN GLEAM

One of the outstanding novelties of the season. The plant forms a vigorous, large bush which throws out short runners, averaging 18 inches. The flowers commence to come as soon as the plant nears complete development, and at the time it is in full bloom the entire plant, including the runners, is a blaze of color.

The large, golden yellow flowers average 2½ to 3 inches across and are borne on erect, stiff stems 6 inches long. Consequently, the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plants.

This distinct novelty will be welcomed by expert gardeners as a delightful addition to the Nasturtium family as a cut-flower on account of its glorious color and delightful fragrance. **Pkt. 15 cts., oz. 75 cts., ¼lb. \$2.50.**

NEW LARGE-FLOWERING

The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size, and esthetic form make them valuable for cutting.

LARGE-FLOWERED, DWARF, MIXED. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.

LARGE-FLOWERED, TALL, MIXED. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.

TOM THUMB DWARF OR BEDDING

Aurora. Salmon-rose.
Beauty. Light scarlet, mottled yellow.
Brilliant. Rich scarlet.

King Theodore. Deep crimson-maroon; dark foliage.
Luteum. Pure, light yellow.
Pearl. Pure white.

Price of any of the above-named Dwarf sorts, pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.75.

SPECIAL COLLECTION: 1 pkt. each of 6 varieties, 50 cts.

Dwarf, Mixed. A mixture of above-named sorts. Pkt. 10 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.50.

Dwarf, Ivy-leaved. Beautiful, dark green, ivy-like foliage, forming an effective setting for the lovely flowers of various colors. **Mixed Colors. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.**

Dwarf, Variegated-leaved. These comparatively new varieties are equally thrifty and robust in growth and produce freely as beautiful flowers in various colors as the plain green-leaved Nasturtiums, with the added merit of ornamental foliage. We offer in a mixture of best colors. **Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.**

TALL OR CLIMBING

Elegant and luxuriant climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seed-pods can be gathered while green and tender for pickling; 6 to 10 feet.

Crimson. Rich and velvety.
King Theodore. Deep crimson-maroon; dark foliage.
Pearl. Creamy white.
Rose. A lovely shade of ruby-rose.
Twilight. Delicate salmon.
Yellow. Pure yellow.

Any of the above, pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.75

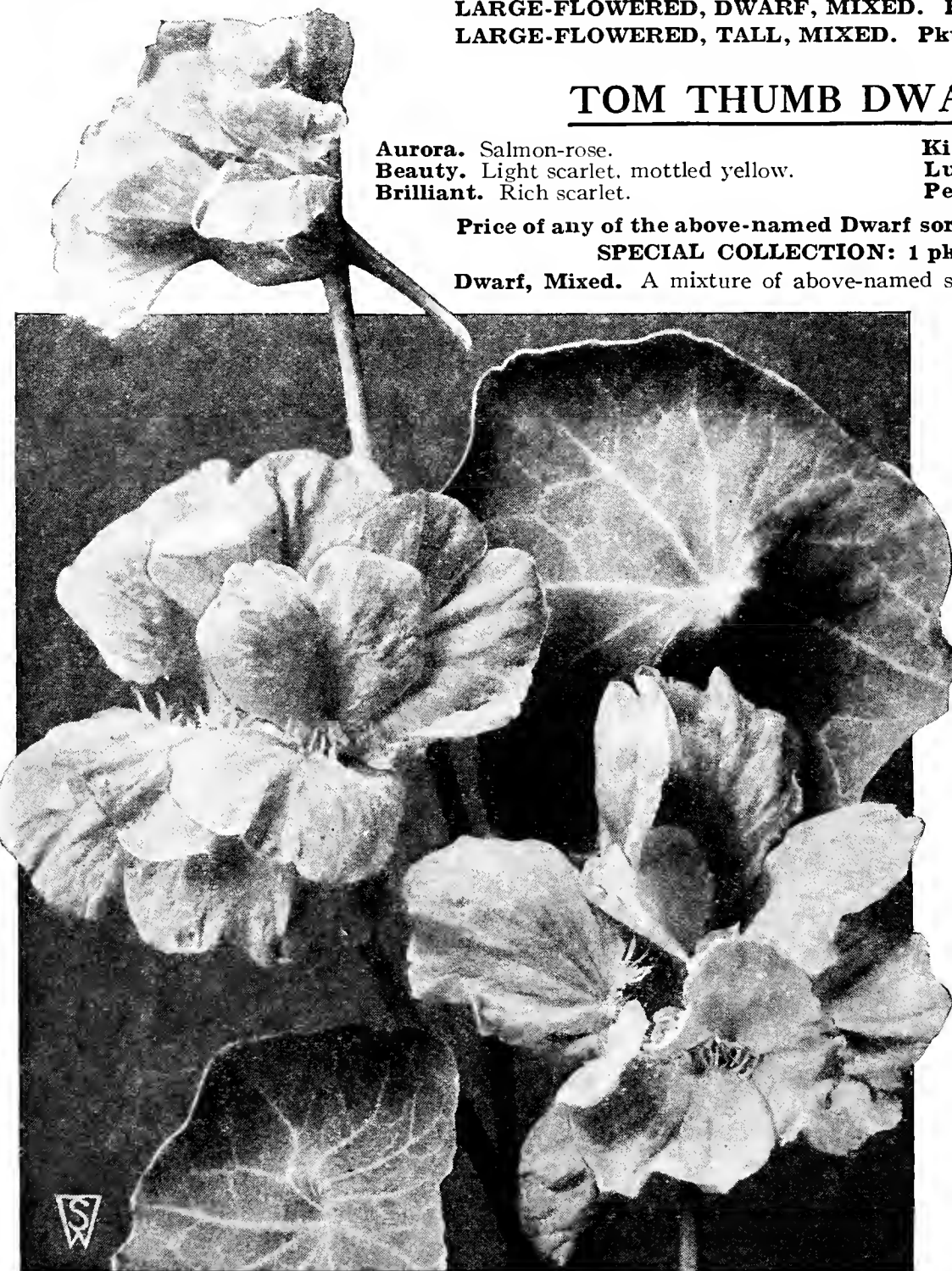
SPECIAL COLLECTION: 1 pkt. each of 6 varieties, 50 cts.

Tall, Mixed. A mixture of the above-named sorts. Pkt. 10 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.50.

Tall, Ivy-leaved. Similar in type to the Dwarf Ivy-leaved, but in Tall varieties. **Mixed Colors. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.**

Tall, Variegated-leaved. Similar in type to the Dwarf Variegated-leaved, in Tall-growing sorts. **Mixed Colors. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.**

Tom Pouce. A trailing sort which grows only 24 inches. Many but small flowers. Suitable for hanging-baskets, rock-gardens, etc. **Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.**



New Double Sweet-scented Golden Gleam Nasturtiums

Stumpp & Walter Co.'s Giant Pansies

This very popular annual needs little description. Good results may be obtained from sowing seed in April in a light, cool, but well-moistened soil, enriched with a slight amount of barnyard manure or fine-ground bone. Sow seed in drills, covering them five times their diameter, and firm soil. Water once a day, except in very dry weather, when they may be watered twice a day. Seed will germinate in about two weeks and should not be allowed to dry out. A thin covering of newspapers will prevent drying out.

When plants are large enough to handle, transplant to a distance of 1 foot apart. Where greenhouse and coldframe facilities are at hand, sow in July or August and protect plants during winter.

"Pansy Pastoral Giants"

A variety of Super-Pansies which excel in hardiness, length of stem, and size of flower. These magnificent flowers have the most ponderous blooms and are the strongest and silkiest ever propagated. They come in a multitude of harmonious and enchanting shades.

Pure Golden Yellow.

Lavender (light).

Pure Snow-White.

Mahogany.

Emperor William, Blue (dark).

Bronze.

Yellow, Dark Eye.

Wine-Red.

Mixed. Contains every conceivable color.

Each of the above, pkt. (about 300 seeds) 50 cts.
 $\frac{1}{16}$ oz. \$2.50, $\frac{1}{8}$ oz. \$4, $\frac{1}{4}$ oz. \$7, $\frac{1}{2}$ oz. \$13, oz. \$25

Stumpp & Walter Co.'s World's Best Mixed Exhibition Strain

This mixture of Giant Pansies has been prepared from the finest varieties grown, with blooms of gigantic size, splendid texture, and plants of robust constitution, holding their majestic blooms well above the foliage. Every conceivable color and combination of colors has been included. Pkt. 50 cts., $\frac{1}{16}$ oz. \$2.50, $\frac{1}{8}$ oz. \$4, $\frac{1}{4}$ oz. \$7, $\frac{1}{2}$ oz. \$10, oz. \$20. ($\frac{1}{16}$ oz. contains about 2,000 seeds.)

Stumpp & Walter Co.'s Non Plus Ultra Mixed

A mixture of Pansies for the critical buyer who desires his beds to appear uniform in quality, giving every color and combination of colors that exists in this highly meritorious flower. Pkt. 25 cts., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2, $\frac{1}{2}$ oz. \$3.75, oz. \$7.50. ($\frac{1}{8}$ oz. contains about 4,000 seeds.)

Mixed Bedding Pansies. An assortment of all colors. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.50.

Giant Mastodon Strains

New Varieties

Golden Gate. *New.* A monster golden yellow, unequaled in size and beauty.

Mastodon Striata. Dark and rose-pink shades, mottled and beautifully striped in true sunburst fashion.

Mlle. Irene. A shade entirely new to Pansies—a henna-red.

Improved Isabelle. A superb, ruffled bronze and yellow; long stems; very large.

Above 4 varieties, each, pkt. 50 cts., $\frac{1}{16}$ oz. \$2.50, $\frac{1}{8}$ oz. \$4, $\frac{1}{4}$ oz. \$7, $\frac{1}{2}$ oz. \$10, oz. \$20

Separate Colors of Giant Mastodon Pansies

Black Mastodon. Nearly all jet-black.
White Mastodon (dark center). The largest Pansies ever seen.

Mme. Perret. Edges of petals frilled and bordered white. Colors wine, pink and red.

Prince Henry. A splendid dark blue.

Above 7 varieties, each, pkt. 25 cts., $\frac{1}{16}$ oz. \$1, $\frac{1}{8}$ oz. \$1.75, $\frac{1}{4}$ oz. \$3, $\frac{1}{2}$ oz. \$5, oz. \$10

Mastodon, Mme. Steele. Elk's purple; immense blooms. A perfect self.

Improved Beaconsfield. Bluish purple with lavender tinge on upper part of petals.

Mastodon, Adonis. Light blue, baby blue, and lavender shades.



PETUNIA

Petunias cannot be equaled by any other plant for outdoor decoration. They will flower the first season, even if sown in the open ground, but usually not before June. Those sown in the house or hotbed in April will bloom in June and be larger and finer plants. Half-hardy annual.

S. & W. Co.'s Giant-flowering Petunias. The demand for a mixture comprising the best representative types of single-flowering Petunias has been so significant that we have by careful selection and elimination prepared a special mixture. Where a mixture of the giant single fringed and plain-edged varieties is desired, as well as an assortment of the various colors and shades, our customers will find them **for bedding purposes the finest procurable.** Pkt. 25 cts., 5 pkts. \$1.

GIANT-FLOWERING FRINGED PETUNIAS

SINGLE VARIETIES

Under this heading we have listed the finest possible varieties of the now-popular large-flowering fringed Petunias. Whether desired for bedding, cutting, or general display, the varieties listed are the best by test of the Fimbriata, or fringed large-flowering class.

	Pkt.	5-pkts.
Single Fringed, White. Pure glistening white	\$0 25	\$1 00
“ “ Yellow. Canary-yellow	25	1 00
“ “ Rose. Brilliant rose	25	1 00
“ “ Crimson. Dazzling crimson	25	1 00

Single Fringed Mixed. A mixture of best fringed varieties including the above, together with many additional new colors and shades. Should be grown by everyone desiring the best. Pkt. 25c., 5 pkts. \$1.

Fluffy Ruffles. A mixture of colors, but the flowers are ruffled and fringed. Pkt. 25 cts., 5 pkts. \$1.

Theodosia. This is a very fascinating fringed Petunia, of a softer rose than Pink Triumph, slightly larger, with a more open throat and beautifully veined. Pkt. 25 cts., 5 pkts. \$1.

DOUBLE VARIETIES

It has been a well-established fact that seed saved from the most carefully hybridized flowers produces some double, some semi-double and some single flowers. It is important to save the weaker seedlings, when planting out, as these invariably produce the finest double flowers.

	Pkt.	5 pkts.
Double Fringed, White	\$0 50	\$2 00
“ “ Rose	50	2 00
“ “ Crimson	50	2 00

Double Fringed Mixed. A superb mixture of the finest double fringed varieties. Pkt. 50 cts., 5 pkts. \$2.

BEDDING VARIETIES

Countess of Ellesmere. Dark rose with fine white throat. Pkt. 10 cts., 1/8oz. 75 cts., 1/4oz. \$1.25.

Elk's Pride. A very large and very dark Elk's purple variety. The flower has a plain edge. Pkt. 25 cts., 5 pkts. \$1.

Howard's Star Improved. Crimson with white star in center. Pkt. 15 cts., 1/8oz. \$1, 1/4oz. \$1.50.

Inimitable Compacta. Bushy little plants covered with striped and star-shaped flowers. Pkt. 10 cts., 1/8oz. 75 cts., 1/4oz. \$1.25.

Rose of Heaven. Similar to Rosy Morn but more brilliant. Pkt. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50.

Rosy Morn. Carmine-pink. Pkt. 15 cts., 1/8oz. \$1, 1/4oz. \$1.50.

Silver Blue. Enchanting shade of light silvery blue. Pkt. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50.

Snowball. An excellent compact variety, producing satiny white flowers. Pkt. 15 cts., 1/8oz. \$1, 1/4oz. \$1.50.

Snow Queen. Similar to Snowball but not quite so dwarf. Pkt. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50.

Special Bedding, Mixed. All colors. A very effective show may be had by sowing broadcast. Pkt. 10 cts., 1/4oz. 40 cts., oz. \$1.50, 1/4lb. \$4.

PHLOX DRUMMONDII (Hardy Annual)

Among our best annuals, flowering freely all the summer. For richness of color they cannot be surpassed. They are invaluable for beds and ribbon-gardening, therefore no garden should be without them. They should be sown outdoors in May, in a situation well open to the sun, and they will flower and be a mass of color in July and continue until late autumn. Seeds may be sown in a hotbed in March and flowers be had in June.

Large-flowering Tall Varieties

This is the finest type, having the largest heads of bloom as well as the largest individual flowers; of strong, sturdy growth, attaining a height of about 15 inches.

	Pkt.	1/4oz.
* Brilliant. Finest crimson.....	\$0 10	\$0 75
Carmine. Carmine with white eye...	10	75
* Chamois-Rose. Shell-pink.....	10	75
* Isabellina. Tea-rose yellow.....	10	75
Kermesina. Scarlet-striped.....	10	75
Leopoldii. Rose with white eye....	10	75
* Purple. Deep purple.....	10	75
Purple King. Purple, white eye....	10	75
Rosea. Enchantress-pink.....	10	75
Scarlet. Rich scarlet.....	10	75
* Splendens. Deep crimson, white eye..	10	75
* White. Pure white.....	10	75
Finest Tall Mixed.....Oz. \$2..	10	60

Special Collections. One pkt. each of 6 varieties marked *..\$0 50
One pkt. each of 12 named varieties..... 1 00

Large-flowering Dwarf Varieties

This type resembles the tall sorts offered in size of blooms but the plants are dwarfer in habit. Pkt. 1/4oz.

Chamois-Rose. Shell-pink.....	\$0 10	\$1 25
Defiance. Brilliant crimson.....	10	1 25
Fireball. Scarlet.....	10	1 25
Purple.	10	1 25
Snowball. Pure white.....	10	1 25
Surprise. Vermilion, white center....	10	1 25
Finest Dwarf Mixed	10	1 00

IMPORTED COLLECTION. One pkt. each of above 6 varieties, 50 cts.

Star of Quedlinburg. Dwarf; star-shaped flowers; a novel variety. Mixed colors, pkt. 10 cts., 1/4oz. 75 cts.

HARDY PHLOX

	Pkt.	1/4oz.
Large-flowering Hybrids, Tall Mixed	\$0 25	\$2 50
Large-flowering Hybrids, Dwarf Mixed.	25	3 00

PASSION FLOWER

Handsome, rapid-growing perennial climber for greenhouse decoration or sunny positions in the open ground in summer.

Cærulea. Large flowers of violet and blue....	Pkt. \$0 15
Alba. Large, white flowers.....	15

PHYSALIS (Chinese Lantern Plant)

Franchetii. Hardy perennial forming dense bushes about 2 feet high, producing bright orange-scarlet lantern-like fruits. May be had in flower first year from seed if sown early; the fruits are often displayed in florist shops and are very interesting, and of splendid decorative value. Pkt. 25 cts., 1/4oz. 75 cts., oz. \$2.50.

PENTSTEMON (Beard Tongue)

Highly useful and attractive hardy perennial.

S. & W. Co.'s Giant-flowered Hybrids,

Mixed. This is a mixture of the finest giant-flowering varieties and a very excellent assortment of colors. Pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50.

S. & W. Co.'s Pink Strain. A very pleasing strain of pink and pale rose shades. Pkt. 25 cts., 1/4oz. 75 cts., oz. \$2.50.

Spectabilis. A beautiful species which, although a perennial, is somewhat tender and had best be treated as a half-hardy annual, sowing seed in February to bloom the same summer. Grows 3 to 4 feet high and produces long spikes of rose-purple or lilac flowers. Pkt. 25 cts., 5 pkts. \$1.

Sensation. As a bedding plant this takes first rank. It grows about 2 feet high, every branch being a spike of large, gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. Best treated like petunia, verbenia, salvia, etc. Pkt. 15 cts., 2 pkts. 25 cts., 1/8oz. \$1.50, 1/4oz. \$2.50.

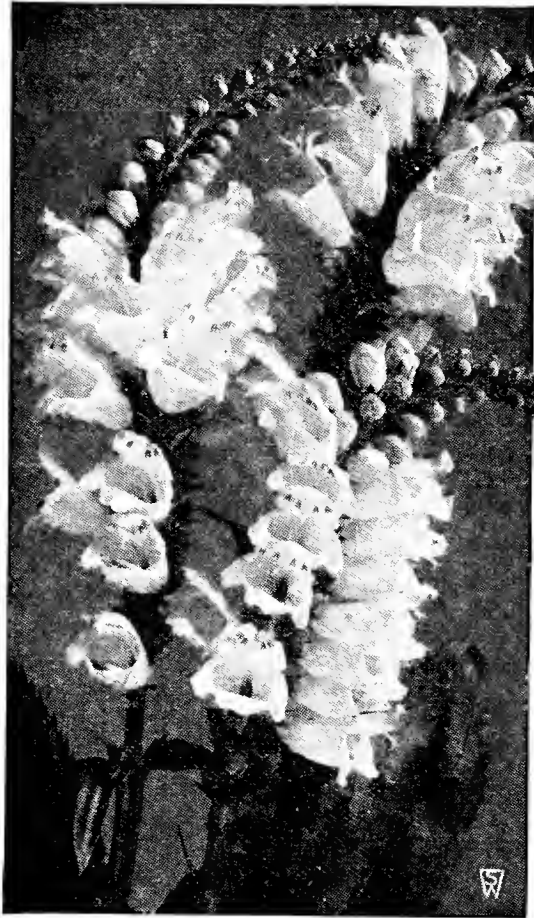
Phacelia Campanularia

This is sometimes called the Californian Bluebell. The flowers are cup-shaped; lovely gentian blue. The neat little annual, about 1 foot high, is literally covered with these lovely flowers throughout the summer. It can be grown as easily as a cornflower. Pkt. 15 cts., 1/4oz. 50 cts., oz. \$1.50.

Pentstemon



Phlox Drummondii



Physostegia

POTENTILLA (Cinquefoil)

Charming plants for the mixed border, producing brilliant flowers. Will thrive in almost any soil provided the situation is sunny.

Argentea calabra. Hardy perennial, producing yellow flowers during summer. Height 18 inches.

Nepalensis (formosa). Hardy perennial. Red. Height 18 inches.

Miss Willmott. Hardy perennial. Rose. Height 6 inches.

Each, pkt. 25c., 1/8oz. 75c., 1/4oz. \$1.25

PORTULACA Sun Plant

One of our finest annual plants, of easy culture, thriving best in a rather rich, light loam or sandy soil, and luxuriating in an exposed sunny situation. The flowers are of the richest colors and are produced throughout the summer in great profusion. Fine for massing in beds, edgings on rockwork, and frequently used to sow broadcast over sunny banks, etc. In any case, it is well to mix the seed with three or four times its bulk of dry sand or soil, which permits of even and easy distribution. Height 6 inches.



Portulaca

SINGLE GRANDIFLORA

	Pkt.	1/4oz.		Pkt.	1/4oz.
Alba. Pure white.....	\$0 10	\$0 50	Splendens. Crimson.....	\$0 10	\$0 50
Aurea. Deep golden yellow....	10	50	Finest Mixed	Oz. \$1..	10 30
Rosea. Beautiful rose.....	10	50			

DOUBLE GRANDIFLORA

	Pkt.	1/8oz.	1/4oz.		Pkt.	1/8oz.	1/4oz.
Alba. White.....	\$0 10	\$0 75	\$1 25	Splendens. Crimson...	\$0 10	\$0 75	\$1 25
Rosea. Rose.....	10	75	1 25	Sulphurea. Yellow....	10	75	1 25
Salmonea. Salmon....	10	75	1 25	Finest Mixed	10	60	1 00

PUERARIA THUNBERGIANA

Japanese Kudzu Vine

To this must be awarded first place as the fastest-growing hardy climbing plant. It will grow 8 to 10 feet the first year from seed, and after it has become established there seems to be no limit to its growth, 50 feet in a single season being not unusual. Its foliage is large and covers well. It bears small racemes of rosy purple, pea-shaped blossoms toward the close of August. A splendid subject for permanently covering verandas, dead trees, etc. Pkt. 10 cts., 1/4oz. 30 cts.

PHYSOSTEGIA (False Dragonhead)

Virginica. One of the prettiest hardy perennials, forming dense bushes, 3 to 4 feet high, and bearing freely during the summer months spikes of delicate lilac tubular flowers not unlike a gigantic heather. Pkt. 10 cts., 1/4oz. \$1.

Virginica alba. White. Height 4 feet. Pkt. 25 cts., 1/4oz. \$1.50.

PLATYCODON

Balloon Flower; Japanese Bellflower

One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery. Easily raised from seed; begin blooming in August if sown outdoors in April. Pkt. 1/4oz.

Grandiflorum. Large steel-blue flowers..... \$0 10 \$0 75

Grandiflorum album. Pure white variety..... 15 1 50

Grandiflorum Mariesii. Large, open, bell-shaped flowers of a rich violet-blue; plant dwarf and compact..... 15 1 50

Grandiflorum japonicum fl.-pl. (Double Japanese Bellflower). Large, glossy, deep blue flowers. The inner petals alternate with the outer ones, giving the flower the appearance of a ten-pointed blue star.. 2 pkts. 25c.. 15 2 50

POLEMONIUM

Jacob's Ladder

Popular hardy perennial border plant, with bell-shaped flowers nearly 1 inch across. 2 feet. Flowers from May to July.

Ceruleum grandiflorum. Deep blue. Pkt. 10 cts., 1/4oz. 50 cts.

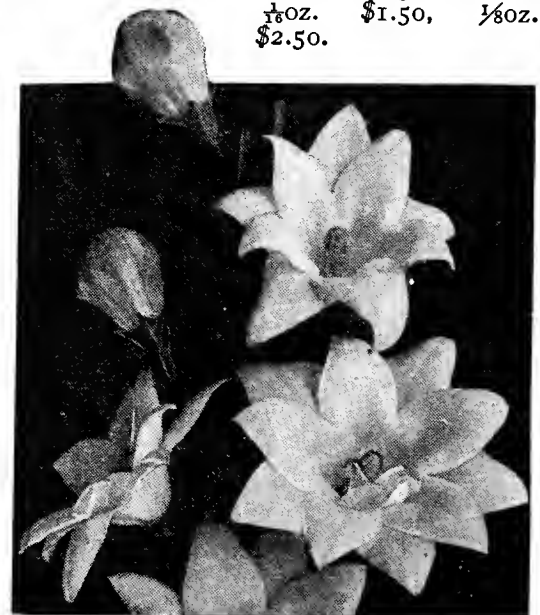
Ceruleum album. Pure white. Pkt. 10 cts., 1/4oz. 50 cts.

Richardsonii. Sky-blue. Pkt. 10 cts., 1/4oz. 50 cts.

GIANT POLYANTHUS

Primula elatior

The visitor to any of the famous gardens of England in May-time is greatly impressed with the manner in which this beautiful Primrose is used and the gorgeous display the better varieties present. Many of the larger gardens use them to intersperse between May-flowering tulips in their bulb-gardens, but they are best seen to advantage in borders or in beds. The strain we are offering is of strong, sturdy habit, and bears immense trusses of large flowers on strong stems 10 inches in length. The colors vary from pure white to rich wallflower-red. Seed is usually sown in early summer, in a frame, and the plants transplanted to the garden in the autumn. They require slight protection over winter. Pkt. 25 cts., 5 pkts. \$1, 1/8oz. \$1.50, 1/4oz. \$2.50.



Platycodon grandiflorum japonicum fl.-pl.

POPPIES

Annual Poppies should be sown as early as possible in the spring where they are to remain, as they do not transplant readily. It is advisable to mix the seed with builders' sand, using about twenty-five times as much sand as seed, and then carefully broadcast seed on the surface of the ground and firm well. Plants should be thinned out to stand about 6 inches apart for best results. Seed may be sown in rows also and in succession up to the middle of May. It is advisable to pick flowers just as they are expanding as they last longer; removing the old blooms from plants will help lengthen the flowering season.

Single Annual Varieties

SINGLE SHIRLEY, AMERICAN LEGION

This new single Shirley is a dazzling orange-scarlet of enormous size, borne on long, stout stems. The plants are of very erect, robust growth. Highly commended by the Royal Horticultural Society of Great Britain. Pkt. 15 cts., 1/4oz. 75 cts., oz. \$2.50.

Shirley, Salmon-Pink.

Shirley, Pure White.

Shirley, Wild-Rose-Pink.

Shirley, Deep Apricot.

Shirley, Picotee. White cup, scarlet edging.

Shirley, Blue Shades. Gray-blue.

Each, pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50

COLLECTION: One pkt. each of above 6 shades, 50 cts.

Shirley, Finest Mixed. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Admiral. A peony-flowered variety of surpassing beauty, having large flowers of glistening white, with a broad band of brilliant scarlet around the top. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Dainty Lady. Immense flowers 4 to 5 inches across, of a charming shade of rosy mauve, with a large dark metallic blotch at the base of each petal. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Danebrog (Danish Cross). Very showy variety, producing large flowers of brilliant scarlet, with a silvery white spot on each petal, forming a white cross. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

King Edward. New. Gorgeous. Deep scarlet, shaded crimson-red, each petal marked with a black blotch against which the yellow anthers stand out in bold relief. The plant grows 2 1/2 feet high. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

English Scarlet (Flanders). The common scarlet Field Poppy of Europe. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Tulip Poppy (Papaver glaucum). One of the most brilliant; the flowers are 3 inches across and closely resemble the brilliant scarlet Gesneriana tulip. Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.

Double Annual Varieties

New Double Shirley Poppies. Mixed colors. A new semi-double type. The color range is very wide, while the flowers are very beautiful and graceful. Pkt. 25 cts., 1/4oz. 75 cts., oz. \$2.50.

CARNATION-FLOWERED

Bright Rose
Shell-Pink

Heliotrope
White Swan

Mikado. Red, white striped.

American Flag. White, bordered scarlet.

Each, pkt. 10 cts., 1/4oz. 30 cts., oz. \$1

COLLECTION: One pkt. each of above 6 colors, 50 cts.

Mixed. Includes all colors. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

PEONY-FLOWERED

Bright Rose
Creamy Yellow
White

Cardinal-Red
Shrimp-Pink
Black Prince

Each, pkt. 10 cts., 1/4oz. 30 cts., oz. \$1

COLLECTION: One pkt. each of above 6 colors, 50 cts.

Mixed. Includes all shades. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

Double Queen. This beautiful new strain of Poppies is of the Shirley type, but the flowers are double and semi-double, of the most delicate and brilliant colors, including salmon, pink, crimson, orange-salmon shaded white, brilliant scarlet with white center. Pkt. 15 cts., 1/4oz. \$1 00

Hardy Perennial Varieties

ORIENTAL POPPIES (Papaver orientale)

Sow early in spring. Plants disappear in July and August, appearing again in cool weather. When this fall growth starts transplant to their permanent flowering quarters. It is well to mark the places they are planted, to insure the roots against disturbance during their annual resting period.

	Pkt.	1/4oz.	Oz.
Orientele, Scarlet.	\$0 15	\$0 50	
Orientele, Oriflamme. Gorgeous orange-scarlet....	15	50	
Orientele, Princess Victoria. Immense salmon flowers.	25	75	
Orientele, Finest Mixed.	10	50	

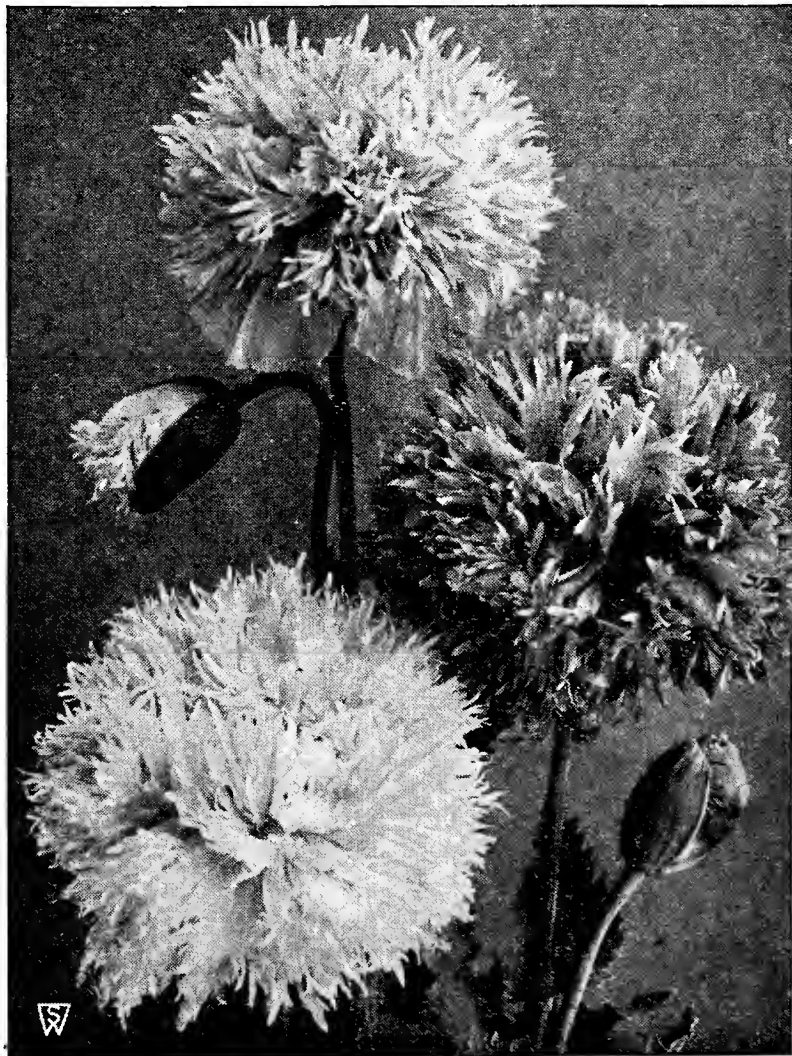
ICELAND POPPIES (Papaver nudicaule)

Iceland Poppies, while considered perennials, will flower the first year from seed. They are of graceful habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks about 12 inches high, bearing brilliant flowers in endless profusion.

	Pkt.	1/4oz.	Oz.
Iceland (Nudicaule) Scarlet.	\$0 15	\$0 60	\$2 00
Iceland (Nudicaule) White.	15	60	2 00
Iceland (Nudicaule) Yellow.	15	60	2 00
Iceland (Nudicaule) Mixed.	15	60	2 00
Iceland (Nudicaule) Double Mixed.	15	75	2 50

ALPINE POPPIES (Papaver alpinum). This miniature, hardy perennial Poppy is one of the most beautiful rock and alpine plants with blooms in a marvelous color-range. Mixed, pkt. 25c., 1/8oz. \$1.

TIBETAN POPPIES (Meconopsis Baileyi). Recently discovered; believed to be the most beautiful Tibetan Poppy. A perennial 4 feet high, and producing sky-blue flowers. Pkt. 50 cts.



Carnation-flowered Poppies (Annual)

PRIMULA (Primrose)

The charming and beautiful Chinese Fringed Primroses and Obconica varieties are among the most important winter-blooming pot-plants. The seed we offer is of the highest merit, and has, as usual, been saved from the best strains of European growth. Seed sown in April will bloom during early winter; August for spring blooming. Sow in shallow pans, in soil consisting of part sand and leaf-mold worked through a fine sieve and allow for good drainage. Cover seeds lightly and water frequently; give a temperature of about 65 degrees.

Primula sinensis (Chinese Primrose)

This beautiful Chinese Fringed Primrose is indispensable for spring decoration in the home or conservatory, and ranks as one of the finest of all winter-blooming pot-plants grown by the florist or the home-gardener.

Giant magnifica, Blue	Giant Ruby Queen
Giant Crimson	Giant Salmon
Giant Rose Queen	Giant White, Fern-leaved
	Giant Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Giant Double, White	Giant Double, Rosy Pink
Giant Double, Scarlet	Giant Double, Salmon-Pink
Giant Double, Blue	Giant Double, Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Primula stellata

A very pretty form, with large heads of star-shaped flowers of various colors; a splendid type for decorative purposes.

Giant White Star	Giant Blue Star
Giant Salmon-Pink	Giant Rosy Star
Giant Crimson Star	Giant Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Giant Primula obconica

This type of Primula outrivals the old Obconica type, the flowers being considerably larger, often measuring 2 inches across.

Atrosanguinea, Mohnstein. Bright crimson.....	\$0 50
Mueller. Deep crimson.....	50
Rosea, Mueller. Bright rose.....	50
Obconica gigantea alba	25
lilacina. Beautiful lilac.....	25
Mixed	25



S. & W. Co.'s Primula sinensis

HARDY PRIMULAS

Auricula, Mixed Colors. A favorite of great beauty. 6 inches. Height 2 feet.....	Pkt. \$0 15
Beesiana. Purple with yellow eye. Height 2 feet.....	25
Bulleyana hybrida. Orange, apricot, and carmine shades. Height 2 feet.....	25
Cashmeriana. Lilac flowers in dense heads. Height 1 foot.....	25
Denticulata. Rosy lilac. Height 1 foot.....	25
Japonica (Japanese Primrose). Bright and showy flowers, borne in whorls on stems 6 to 9 inches long. Mixed.....	15
Pulverulenta. Rich ruby-crimson. Height 1 1/2 feet.....	25
Veris. The English Cowslip. Mixed colors.....	15
Vulgaris. Canary-yellow, fragrant. The true English Primrose.	15

A New Hardy Primula

Florindæ. A stately variety which often reaches a height of 4 feet. Blooms during July and August, bearing 60 to 80 fragrant bright, yellow, pendent flowers at the top of each stem. Pkt. \$1.

PRIMULA MALACOIDES Greenhouse Culture

Malacoides (The Giant Baby Primrose). The flowers measure 1/2 to 3/4 inch across, and the plants branch very freely. The flowers, of a pretty light lilac, are borne in whorls on stems which are graceful and strong. Pkt. 25 cts., 5 pkts. \$1.

Malacoides alba. This beautiful new white variety is a welcome addition to this type of Primula. Pkt. 25 cts., 5 pkts. \$1.

Malacoides, True Rose. A perfect carmine-pink, bright and rich in hue, and producing 90 per cent true from seed. Sown from June to August, it will be in flower, under glass, from January to March. A very graceful strain, affording a charming picture and showing at their best the fine points of the Malacoides Primula. Pkt. 50 cts., 5 pkts. \$2.

Courtland Seedling. The greatest advance in *P. malacoides* in years. Individual flowers are extremely large and of a beautiful shade of lilac-pink. No collection would be complete without this marvelous variety. Pkt. 50 cts., 5 pkts. \$2.

Pink Beauty. Still considered to be one of the best. Color a beautiful tone of light pink. Pkt. 25 cts., 5 pkts. \$1.

Princess Mary. Considered by specialists to be one of the best in cultivation. The flowers are of good size and of a delightful shade of deep rose-pink. Pkt. 50 cts., 5 pkts. \$2.

VARIOUS SORTS

Forbesii (The Baby Primrose). The plants throw up tiny flower-stalks when only a few weeks old, but we advise pinching them off and the plants kept growing until October. They may then be allowed to flower. Pkt. 25 cts., 5 pkts. \$1.

Kewensis. This new variety is most attractive, with bright yellow flowers. It is delightfully fragrant and stands well as a house plant. Pkt. 25 cts., 5 pkts. \$1.



S. & W. Co.'s Single Pyrethrum. See page 63

PYRETHRUM

The first-named variety is the well-known Golden Feather so much used for edging, carpet-bedding, etc., while the others are most attractive hardy plants, with daisy-like flowers that are perfect gems for cutting.

Aureum (Golden Feather). Half-hardy perennial, grown as an annual. Valuable for edging. Pkt. 10 cts., 1/4 oz. 50 cts.

S. & W. Co.'s New Double Hybrids. This beautiful perennial is one of the finest for cutting. The seed we are offering is grown by an expert who, after painstaking effort, has produced a wonderful strain with large, very double flowers in distinct shades of pink, salmon, scarlet, and pure white. Pkt. 25 cts., 5 pkts. \$1, 1/8 oz. \$1.50, 1/4 oz. \$2.50.

S. & W. Co.'s Single Hybrids. Our single strain of this beautiful hardy perennial has been grown specially in England for us by a specialist of this flower. The cosmos-like flowers range in color from the palest pinks to deep red, the bright yellow centers forming a splendid contrast. Pkt. 25 cts., 5 pkts. \$1, 1/4 oz. \$1.50.

RAMONDIA

Pyrenaica. A rare and beautiful hardy perennial for the alpine garden. Grows 4 inches high and produces violet-purple flowers in early spring. Pkt. 25 cts.

RANUNCULUS

Asiaticus, Palestine Strain. Originating from a wild, large-flowered Ranunculus found in Palestine, a variety of colors—reds, yellows, orange, etc.—have been produced; many are marked with green. The mixture includes singles, semi-doubles, and doubles, the flowers making the plants a blaze of color. A border of these hardy perennials in early June is a fine sight. Height 10 inches. Pkt. 35c.

REHMANNIA

Angulata. Greenhouse herbaceous perennial from central China. Erect habit; 2 to 3 feet in height; flowers 3 inches in diameter, rosy purple with yellow throat, spotted with deep purple; of easy culture; blooms nine months from time of sowing seed. Pkt. 25 cts.

RUDBECKIA (Coneflower)

Well-known hardy perennials, invaluable for the herbaceous border.

	Pkt.	1/4 oz.
Bicolor, Solfatare. Sulphur-yellow. Height 3 feet. . . .	\$0 15	\$0 50
Bicolor superba. Yellow with brown center. Ht. 3 feet	15	50
Fulgida. Orange-yellow. Height 5 feet.	15	60
Newmani. Orange with purple cone. Height 3 feet. .	15	1 00
Purpurea. Reddish purple. Height 4 feet.	15	1 00

SALPIGLOSSIS (Painted Tongue)

Few annual flowers contribute such a wealth of bloom from summer until cut down by frost. It is only of recent years that American gardeners have become better acquainted with this delightful annual. As a cut-flower it has become highly prized. The funnel-shaped flowers, facing upward, revealing their exquisite markings of either gold or silver veins running through the groundwork of the flowers, and their orchid-like appearance, make them instant favorites.

Seeds may be sown in the open ground in spring, or for earlier flowering sow in a hotbed or sunny window, and when all danger of frost is past, place in the garden, allowing 9 inches between the plants.

New Hybrids of Salpiglossis superbissima

(Orchid-flowering)

Brown and Gold	Purple and Gold
Crimson	Scarlet and Gold
Light Blue and Gold	Rose and Gold
Primrose	Velvety Violet

Each, pkt. 15 cts., 1/4 oz. 75 cts., oz. \$2.50

COLLECTION: One pkt. each of above 8 colors, \$1

Finest Mixed. A mixture of all the above shades. Pkt. 10 cts., 1/4 oz. 50 cts., oz. \$1.75.

SAXIFRAGA

Cordifolia. Well-known rock-garden plant with pink flowers. Height 9 inches. Pkt. 25 cts.

SALVIA

One of our most handsome summer- and autumn-flowering plants, growing into compact bushes about 3 feet high and literally ablaze with brilliant flowers; very effective for massing on the lawn and for garden decoration. Half-hardy perennials, treated as annuals.

Harbinger. It is a true, dwarf, large-flowering Salvia which commences blooming in July from early-sown seed and continues until hard frost. It makes beautiful symmetrical plants about 15 inches high, and is densely clothed with long sprays of large, brilliant scarlet flowers. Pkt. 25 cts., 5 pkts. \$1, 1/8 oz. \$1.50.

America or GLOBE OF FIRE. A new variety of this popular flower. The bushy plants do not grow over 15 inches high, with the large spikes of brilliant scarlet flowers thrown well above the plant, making a total height of about 2 feet. An acquisition on account of its uniformity of height. Pkt. 25c., 1/8 oz. \$1.50, 1/4 oz. \$2.50.

Scarlet Dragon. This variety is an improvement on the old Splendens type, the flowers being nearly double the size, closely crowding the immense spikes that often measure 6 inches across. Pkt. 10 cts., 1/8 oz. 75 cts., 1/4 oz. \$1.25.

Splendens (Scarlet Sage). Beautiful bright scarlet; 3 feet. Pkt. 10 cts., 1/4 oz. 75 cts., oz. \$2.50.

Bonfire. One of the finest Salvias. The plants grow into compact bushes, about 2 1/2 feet high, and produce brilliant scarlet flowers. Pkt. 10 cts., 1/8 oz. 85 cts., 1/4 oz. \$1.50, 1/2 oz. \$2.50, oz. \$5.

Zurich. Grows about 2 feet high. Especially valuable on account of its earliness. Pkt. 25 cts., 1/8 oz. \$1, 1/4 oz. \$1.75.

Horminum. Half-hardy annual. A pale violet-blue Salvia. Pkt. 15 cts., 4 pkts. 50 cts.

Patens (Blue Sage). Deep blue. Beautiful garden or greenhouse tender perennial. 2 feet. Pkt. 25 cts., 1/8 oz. \$1.50, 1/4 oz. \$2.50.

Scalarea (Clary). Perennial, treated as a half-hardy annual and growing 2 feet high. Curious lavender bracts with white base. Pkt. 15 cts., 4 pkts. 50 cts.

Farinacea. A perennial variety, best grown as an annual. Seeds sown in the open in May bloom from July to frost. The fine light blue flowers are borne on long spikes. 2 feet. Pkt. 15c., 4 pkts. 50 cts., 1/8 oz. \$1.50, 1/4 oz. \$2.50.



Salvia splendens (Scarlet Sage)

SAPONARIA (Bouncing Bet)

- Caucasica fl.-pl.** (Double-flowering Bouncing Bet). A hardy Pkt.
perennial sort with white tinted rose, double flowers, produced
all summer and fall. 15 inches. \$0 10
- Ocymoides.** Hardy perennial rock plant, producing during the
summer masses of small, bright rose flowers. 9 inches. 10
- Vaccaria, Rose.** Pretty and useful annual variety, growing 2
feet high, and bearing satiny pink flowers somewhat like an
enlarged gypsophila. Charming for cutting. Several sowings
should be made to keep up a succession of bloom. Oz. 75 cts. ... 10
- Vaccaria, White** Oz. 75 cts. ... 10

SCABIOSA (Mourning Bride; Sweet Scabious; Pin-Cushion Flower)

These beautiful hardy annuals are in great demand. They grow
about 2½ feet high and bloom from early in July without interrup-
tion until cut down by the frost. As a flower for cutting they are
very popular. The various shades are extremely charming, and are
equally well adapted for borders or beds, where they display them-
selves very effectively. Seeds should be sown any time in the spring
after danger of frost is past.

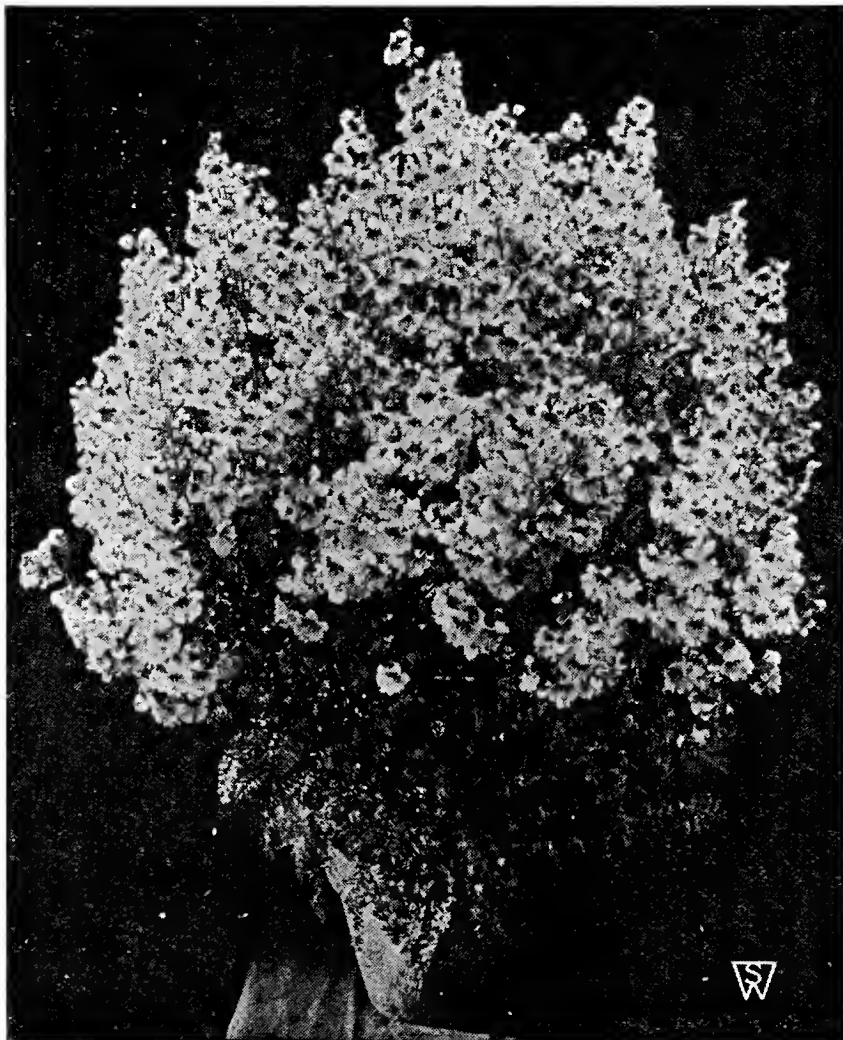
	Pkt.	¼oz.	Oz.
Azure Fairy. Clear lavender-blue.....	\$0 10	\$0 50	\$1 50
Crimson. Brilliant and dazzling.....	10	50	1 50
King of the Blacks. Velvety purplish black.	10	50	1 50
Rose. Strong shade of pink.....	10	50	1 50
Shell-Pink. Delicate light tint.....	10	50	1 50
White. Pure white.....	10	50	1 50

COLLECTION: One pkt. each of above 6 varieties, 50 cts.

Tall Double Mixed	10	30	1 00
Dwarf Double Mixed	10	30	1 00

HARDY PERENNIAL VARIETIES

- Caucasica** (Blue Bonnet.) One of the handsomest Pkt. ¼oz. ¼oz.
of hardy perennials. It is especially valuable
for cutting, the lilac-blue blooms lasting a long
time in water. 3 feet. \$0 15 \$1 00 \$1 50
- Caucasica alba.** Pure white. 3 feet. 25 2 00 3 50
- Japonica.** Hardy perennial variety, forming
bushy plants 2½ feet in height, and bearing on
long stems beautiful, lavender-blue flowers. It
produces continuously all summer. 15 60 1 00



Schizanthus Wisetonensis

SANVITALIA

- Procumbens fl.-pl.** An annual of dwarf, compact growth, Pkt.
useful in masses in beds, or edges of borders, or in vases.
Showy, bright yellow, double flowers; in bloom all summer. ... \$0 15

SCHIZANTHUS (Butterfly or Fringe Flower)

Although grown largely by the florist as a greenhouse plant, this
annual is also of easy culture in any good garden soil.

- S. & W. Co.'s Giant-flowering Hybrids.** Considered by many
professional gardeners
as the finest strain of this splendid pot plant and cut-flower.

Rose and Amber Shades	Rose and Pink Shades
Mauve and Purple Shades	Mixed. Includes all colors
Rose and Carmine Shades	Each, pkt. 50 cts., 5 pkts. \$2

- Wisetonensis.** Largely used as a pot plant for the conserva- Pkt.
tory. It is free-flowering and presents a beau-
tiful appearance, with its myriads of blooms, the ground-color of
which is white, dotted with rose. 5 pkts. \$1. ... \$0 25

- Dwarf Hybridus grandiflorus.** Plants grow 12 inches in
height, of compact and
pyramidal habit, with a great range of colors, bright and hand-
some. Splendid for border planting. 5 pkts. \$1. ... 25

SEDUM (Stonecrop)

Dwarf hardy perennials for the rock-garden and for carpet bedding.

- | | |
|-----------------------------------|------------------------------------|
| Acre. Yellow. Height 6 in. | Spurium. Rose. Height 6 in. |
| Album. White. Height 6 in. | Stoloniferum coccineum. |
| Middendorffianum. Yellow | Scarlet. Height 6 in. |
| with dark foliage. Height 6 in. | |

Each of above, pkt. 25 cts.

SENECIO (Groundsel)

- Forms a neat clump from which develop 2-foot flower-stems.
Clivorum. Perennial; 5 feet high; yellow flowers. Pkt. 25 cts.

SIDALCEA

- Erect plants with mallow-like flowers.
Rosy Gem. Hardy perennial. Rose-colored flowers. Height 3 feet.
Pkt. 25 cts.

SILENE (Catchfly)

- Pendula compacta.** A neat bedding annual, in flower from Pkt.
May to August. Single and double flowers, red, pink and white,
in mixture. Height 6 inches. \$0 10
- Alpestris.** Perennial. White flowers all summer. 4 inches. 15
- Schafta** (Autumn Catchfly). Perennial. 4 to 6 inches high,
with masses of bright pink flowers from July to October. 15

SOLANUM

- Capsicastrum** (Jerusalem Cherry). This is a very useful pot-
plant for winter decoration. It is of dwarf, branching habit,
bearing in the greatest profusion bright scarlet globular
berries. Leaves oval, small. Height 1 foot. 15
- Capsicastrum, Fra Diavolo.** A new variety of the above, of
close, compact growth, with foliage somewhat smaller and
lighter green. The small, bright scarlet fruits remain on the
plant a long time and make it a beautiful decorative plant. 25

STATICE (Sea Lavender)

The cloud-like masses of flowers of the branching varieties make
borders gay for a long time, while their delicate coloring and light,
graceful habit are a great help to helichrysums and other ever-
lasting flowers. Sow the Suworowi and Sinuata varieties outdoors
early in May or sow in a hotbed in March and transplant in April.

- Suworowi.** Cloud-like masses of bright rose.
Sinuata, Mauve. Clear mauve.
Sinuata, Rose Superba. New. Beautiful rose.
Sinuata, Blue. Rich deep blue.
Sinuata, Yellow (*S. Bonduelli*). Bright yellow.

Any of the above, pkt. 15 cts., ¼oz. 50 cts., oz. \$1.50 Pkt.

- Latifolia.** Purplish blue flowers. Hardy perennial. \$0 15
- Mixed Perennial Varieties.** Containing many sorts. ¼oz. \$1. ... 15

STEVIA (Piqueria)

- Serrata.** Free-blooming tender perennial, bearing a multitude
of fragrant, pure white flowers; suitable for summer bedding
or winter blooming under glass. Excellent for cutting. 10

STOCKS

These popular flowers are easily grown, and are so highly fragrant, of such great beauty, and have so many other good qualities, that they deserve a place in every garden. They should be given good rich soil to grow in, and will amply reward good treatment with remarkably large pyramids of bloom. The Early Giant Imperial Stocks are great improvements over the Gilliflowers of the olden times, the flowers being much larger and more densely double, and there is also a much larger variety of color.

The Giant Imperial and Giant Perfection types are half-hardy annuals; seed should be started in the house or hotbed during March or April, planted into small pots, and then set out in the garden during May, allowing 1 foot of space between the plants, in order that they may attain full and perfect development. Beauty Stocks are biennials, but if sown in early spring will bloom the same year.

S. & W. Co.'s Early Giant Imperial

These Stocks are of special merit. They bloom very quickly and continue through the summer. We offer a wide range of color, and in the shades selected the proportion of double flowers is very high. Plants are of branching habit, 2 to 2½ feet high.

Antique Copper	Apple Blossom	Blood-Red	Canary-Yellow
Chamois-Rose	Dark Blue	Deep Rose	Elk's Purple Pride
Golden Rose	Lavender	Old-Rose	White Mixed

Any of the above varieties, pkt. 25 cts., 1/8oz. \$1, 1/4oz. \$1.50

S. & W. Co.'s Improved Perfection

These are an improvement on the variety offered as Ten-Week Stock. Of splendid, pyramidal growth, freely branching from the main stem, giving an abundance of large spikes of double flowers from early summer until fall, and are used largely for cutting. 2 feet.

White	Fiery Crimson	Light Blue	Mixed
Chamois-Rose	Canary-Yellow	Dark Blue	

Any of the above varieties, pkt. 25 cts., 1/8oz. \$1

Giant-Flowering Beauty Stocks

A magnificent, recently developed strain of early-flowering winter or Brompton Stocks, forming much-branched plants about 2 feet high, and having numerous spikes of very large, double, delightfully fragrant flowers; they are of special value as pot-plants for greenhouse decoration and for cutting during the dull winter months; for this purpose seed should be sown from July to September; if sown in February or March, will produce plants that will bloom from midsummer to frost.

Almond Blossom. White, shaded carmine.	Monte Carlo. Canary-yellow.
Beauty of Nice. Delicate pink.	Old Rose. Beautiful shade of old rose.
Crimson King. Rich blood-crimson.	Queen Alexandra. Beautiful lilac.
Mont Blanc. Purest white.	Summer Night. Rich deep blue.
	Mixed.

Any of the above varieties, pkt. 25 cts., 1/8oz. \$1

STREPTOCARPUS

S. & W. Co.'s New Hybrids. A new race of the Cape Primrose, the flowers somewhat resembling those of the gloxinia, but smaller. The plants are compact in habit, the flowers about 2 inches in diameter, with long, tube-like corollas, and are borne in clusters of six to eight on a stem, with several stems to the plants. The colors are varied from white through shades of pink, rose, wine-red, light blue, mauve, etc., many having white throats or marked in various ways. Used for greenhouse decoration. **Pkt. 50 cts.**

SWEET WILLIAM (*Dianthus barbatus*)

A well-known, attractive biennial which flowers the second season from seed. Sow outdoors in May, and transplant in August.

Single White	Single Black-Red	Single Dark Crimson
Single Copper-Red	Single Finest Mixed	Single Red, Edged White

Each, pkt. 10 cts., 1/4oz. 50 cts.

COLLECTION: One pkt. each of 5 colors, 40 cts.

Double White	Double Black-Red	Double Finest Mixed
Double Crimson	Double Pink	

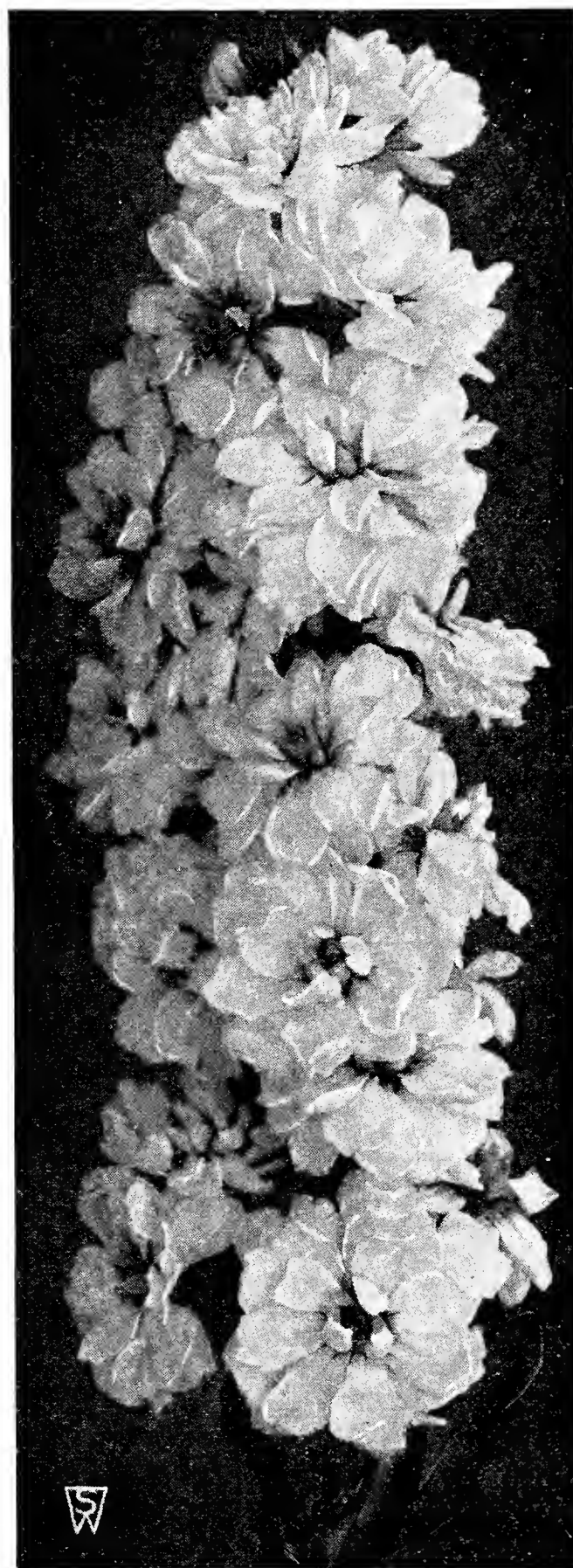
Each, pkt. 15 cts., 1/4oz. 60 cts., oz. \$2

Newport Pink. In color it is what florists call watermelon-pink or salmon-rose, strikingly brilliant and beautiful. The flowers are borne in massive heads on stems 18 inches high. **Pkt. 15 cts., 1/4oz. 50 cts., oz. \$1.50.**

Scarlet Beauty. An intensely rich, deep scarlet, very vivid, and quite an improvement over other listed varieties of its color. **Pkt. 15 cts., 1/4oz. 50 cts., oz. \$1.50.**

Holborn Glory. This strain is a large-flowered selection of the auricula-eyed section. Individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear white eye, is truly superb. **Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.**

Annual Sweet Williams. Sown indoors during March, these will bloom freely the first year. Although but 9 inches high, the plants are showy. Bright colors, mixed. **Pkt. 15 cts., 1/4oz. 60 cts., oz. \$2.**



S. & W. Co.'s Giant Imperial Stocks

STOKESIA

Cornflower Aster

Cyanea. This is not new, but is a rare and beautiful hardy perennial. The plant grows about 2 feet high, bearing from twenty to thirty handsome lavender-blue cornflower-like blossoms which often measure 3 to 4 inches in diameter; in bloom from July till frost. One of the choicest subjects for the perennial border and indispensable for cutting. Perfectly hardy in the latitude of New York. **Pkt. 15 cts., 1/4oz. \$1.**



NEW EARLY or WINTER-FLOWERING SPENCER SWEET PEAS

We have great pleasure in offering to our patrons a very complete list of Early or Winter-flowering Spencer Sweet Peas. Many of our patrons grew them under glass last fall and produced wonderful results. This, however, is not the only reason Sweet Pea growers have worked to produce the large-flowering strain of Sweet Peas to flower early. This new race of Early-flowering Spencer Sweet Peas is particularly adapted to sections where the Summer-flowering Spencer varieties have not proved satisfactory. In our southern states, Japan, Australia, as well as all tropical or subtropical countries, this strain of Early-flowering Spencers, if sown during the early fall months, will produce flowers during the winter and continue until killed by the extreme heat. This is a distinct advantage over the regular Spencer Sweet Peas which, if sown at the same time, will not begin flowering until April.

FIVE NEW VARIETIES

Early Pal. (*Long-stemmed.*) This is the lively, scintillating, pleasing rich rose-crimson Early Sweet Pea which florists and commercial growers have been looking for. Most crimson Sweet Peas, grown under glass, lose brightness of color but in Early Pal we have developed a combination of rose and crimson which holds the brightness and depth of color. The stems are long and strong and the flowers are of excellent form, large and bold. The vines are vigorous in growth and very free-flowering. **Pkt. 35 cts., 1/2oz. \$1.25, oz. \$2.**

Majestic Rose. An immense, deep brilliant rose-pink similar to Zvolanek's Rose but of a richer, deeper tone. The color is more evenly diffused than in any other Sweet Pea in this color-class and lacks the white at the base of the standard and wings which others of this color have. In growth, length of stem, and size of bloom it excels all other Early Sweet Peas. **Pkt. 35 cts., 1/2oz. \$1.25, oz. \$2.**

Early Apollo. (*Long-stemmed.*) In Early Apollo we have a fine companion for the long-stemmed Early Sunray introduced recently. It belongs to our new race of long-stemmed Early Sweet Peas developed for commercial flower growers and florists. In color it is a soft salmon-pink self, a charming and appealing shade blending perfectly with most pink and lavender tints. Contrasted in a bunch with white or cream the effect is delightful. The flowers are unusually large, nicely waved, splendidly placed, and the stems very long. Truly a great novelty. **Pkt. 35 cts., 1/2oz. \$1.25, oz. \$2.**

Early Vogue. This is an improved Early Lavender. It is a selection out of the popular lavender Early Harmony. The flowers are large and well placed on long stiff stems, most of which carry four blossoms. In our opinion this is the best lavender ever introduced, and we feel sure that it will become very popular with the florist. It is a very vigorous grower and extremely floriferous. **Pkt. 35 cts., 1/2oz. \$1.25, oz. \$2.**

Early Sparkle. For many years the late varieties Royal Scot and Grenadier have been the popular scarlet-cerise shades. In Early Sparkle we have this popular shade in an Early. The color is bright, clear, vivid scarlet and is quite sunproof, and the flowers large, bold, and nicely placed on the stout stems. Vines are vigorous and free-flowering over a long season. **Pkt. 35 cts., 1/2oz. \$1.25, oz. \$2.**

	Pkt.	1/2oz.	Oz.
Early Alameda. Deep rose-pink overlaid with glowing salmon-cerise-pink.....	\$0 35	\$1 25	\$2 00
Early Belle. Clear rose-pink on deep cream ground.....	35	1 25	2 00
Early Blue Bonnet. Beautiful deep blue shade.....	35	1 25	2 00
Early Blue Bird. The finest Wedgwood blue; throws a small percentage of dark blue rogues, but grows more vigorously than any other blue, fully a foot higher.....	25	85	1 50
Early Cream. Best pale yellow.....	25	60	1 00
Early Eldorado. Beautiful new orange.....	25	85	1 50
Early Giant Rose. The finest rose-pink, bright and long lasting. Many of the 20-inch stems bear five blossoms.....	35	1 25	2 00
Early Glitters. One of the finest of its color—bright cerise.....	25	85	1 50
Early Imperial Pink. New and good. Large clear pink blooms, with long stems.....	35	1 25	2 00
Early Lavender King. Rich lavender.....	25	60	1 00
Early Marine. Wonderful clear blue.....	35	1 25	2 00
Morse's Superior Pink. The color is a beautiful rose-pink, slightly shaded with salmon...	35	1 25	2 00
Early Mrs. Kerr. Best salmon-pink.....	25	85	1 50
Early Oriental. Best deep cream.....	35	1 25	2 00
Early Pride. This is a pure cerise of most even coloring, deeper in shade than Early Sunray, with large flowers well placed on long stems..	35	1 25	2 00
Early Snowstorm. Good white; vigorous...	25	60	1 00
Early Sunray. Brilliant cerise on a cream ground.....	35	1 25	2 00
Early Valencia. Best orange in cultivation...	35	1 25	2 00
Early White Harmony. The flowers are large and pure paper-white, of great substance. Black seed.....	35	1 25	2 00
Zvolanek's Rose. A fine novelty of recent introduction; rose-pink.....	25	85	1 50
Early-flowering Mixed. A mixture of Early-flowering Sweet Peas covering all the colors..	15	40	75

Summer-Flowering

LARGE
BEAUTIFUL

Sweet Peas

SWEETLY
PERFUMED

FOR GROWING IN THE GARDEN



Each year Sweet Pea enthusiasts of Europe and America introduce new Sweet Peas, until there are now many hundreds of varieties in commerce, most of which are good. From this large number we have selected what we believe to be the best and most distinct sorts. Among these are the ten most recent Novelties of merit, which we distinguish in the text with the word **NEW** and offer in a Special Novelty Collection.

Culture of Sweet Peas. Sow seed as soon as the ground can be worked in the spring. Dig a trench about a foot wide and deep, and fill in with 6 inches of well-rotted stable manure; tread down firmly and replace the good garden soil. Draw a single straight line in the middle of the prepared surface, about $\frac{3}{4}$ inch deep; sow seed at even distances of about 3 inches and cover. When the plants grow about 3 or 4 inches high, thin out, leaving the plants 6 inches from each other. (Experts who raise for exhibition thin out to one foot.) As soon as the vines reach a height of about 8 inches, proper trellis or other supports should be provided.

The Sweet Pea is a moisture-loving plant, and by the month of May the plants will require water. In order that the water may be retained by the soil and get to the roots, as well as keep them cool, it is advisable to use a mulch of old stable manure and soak well with hose each or every other day, as needed.

There are, as yet, no true *Double Sweet Peas*, but careful breeding has produced types with two, three, or four standards, and also several wings. These are Duplex Types.

Austin Frederick Improved. Fine, large, bright Pkt. Oz.
lavender flowers, produced freely on long stems.....\$0 15 \$0 75
Avalanche. A very large flower, strong and heavy,
and of the purest white..... 15 75

Blue Charm. (Duplex type.) Claimed to be the
largest Sweet Pea in cultivation.
NEW The beautiful clear shade of blue
makes it an exceptional variety for the exhibitor, and
it is distinctive in size and texture. Sprays of four
beautiful frilled flowers are produced freely and nearly
every bloom is duplex..... 25

Blue Flame. A large dark blue Sweet Pea. It is
deeper than anything in the blue
class. Fine long stems, and the flowers are very sweet-
scented..... 25 1 00

Celebrity. The most vigorous-growing, orange-
colored Sweet Pea. Its flowers are
unusually large and the stems long and
strong. The color is uniform in standard and wings,
and bright rather than dark. We cannot recommend
this variety too highly..... 15 75

Charity. This is, without a doubt, the finest rich
brilliant crimson which does not burn in the sun. A
vigorous grower, the exquisitely waved flowers are
usually produced in fours on long graceful stems.... 10 50

Charming. Lovely shade of rosy cerise; flowers large
and stems long..... 10 50

Chieftain. Large flowering; silky mauve. Awarded
a Gold Medal by the Scottish Sweet Pea Society.... 15 75

Conqueror. A magnificent, large, clear glowing
cherry-cerise. The standard and
wings are alike in brightness of color. Vines are vigor-
ous and the flowers are borne on fine strong stems.... 25 1 00

Debutante. A magnificent new shade in Sweet Pkt. Oz.
Peas, and difficult to describe, but
the general effect is a lovely soft sal-
mon shaded coral or peach-pink. It is a surprisingly
strong grower, and the large, bold flowers are borne on
stout stems.....\$0 25 \$1 00

Eosine. This variety, according to the chart, is a
beautiful tone of eosine-pink, with a soft
flush of salmon. The flowers are very large and well
placed on long, stout stems..... 25 1 00

Flamingo. This is a fine exhibition variety. Some-
times as many as five flowers are produced on a single
stout stem. The color is a heavy shading of cerise on
a ground of orange-scarlet..... 15 75

Fortune. The standard is violet and the wings are
dark blue—a lovely combination..... 15 75

Gleneagles. One of the best lavenders in commerce.
Extra-long stems and very large flowers..... 10 50

Gold Crest. The flower is orange, and over all is a
beautiful salmon sheen—truly an art color in a fine
flower of great substance..... 15 75

Good Cheer. This is a beautiful shade of deep
begonia-rose. The flowers are very
large and well placed on long stems
and the vines are vigorous growers..... 25 1 00

Hawmark Cerise. This variety differs from the deep
cerise form and the rose-cerise in that the blending
tone is a pure salmon. Is esteemed the finest salmon-
cerise..... 15 75

Huntsman. Entrancing shade of bright scarlet;
sunproof. Good-sized flowers and long, stiff stems... 10 50

Collection of Sweet Pea Novelties. One packet each of the 10 recent introductions of merit, distinguished
in the above list and that on the following page with the word **NEW**, \$2

STUMPP & WALTER CO., NEW YORK CITY

STUMPP & WALTER CO.'S SWEET PEAS, SUMMER-FLOWERING, continued

Kitty Pierce. (Duplex Type.) One of the most charming of Sweet Peas. Both wings and standard are of a soft, light lilac, and spreading through the flower is a delicate suffusion of blush-pink.....		Pkt.	Oz.	
NEW				
		\$0 15	\$0 75	
Lady Ruffles. The warm glow of beautiful soft pink on a ground of white runs down to the base of the standard and wings. A robust variety, throwing four large ruffled blooms on long, strong stems. Lady Ruffles won the Gold Medal of the Scottish National Sweet Pea Society in 1931.....		25		
NEW				
Mary Pickford. A dainty, waved flower, the general color of which is cream-pink; a delicate overtone of salmon, however, gives us an effect that is beautiful indeed. Long and strong stems often bear four blossoms.....		15	75	
Pinkie. The plant is vigorous and stout; strong stems bear a profusion of flowers throughout the season. Deep rose-pink waved blossoms.....		15	75	
Pirate Gold. A new tint of deep golden orange that is most pleasing. The large blossoms are very resistant to strong sunlight and the plant is a robust one.....		25	1 00	
NEW				
Powerscourt. A large, fine, pure lavender variety, outstanding in its loveliness.....		10	50	
Prince of Orange. This is well named, for the enormous flowers are deep orange-red in color, flame-like, rich and brilliant. A fine variety that should be included in every planting of Sweet Peas.....		15	75	
Reflection. A trace of mauve in the young bud disappears as the flower opens to a true, clear blue, winsome in its delicate beauty. A strong plant, producing three and four flowers on its long, sturdy stems		15	75	
Red Boy. A beautiful self-crimson—the richest and brightest yet introduced. Four flowers on long, strong stems are characteristic of this variety. Has won high recognition of the National Sweet Pea Societies of both England and Scotland.....		Pkt.	Oz.	
NEW				
		\$0 25		
Royal Pink. This is one of the largest Sweet Peas grown. Long stems carry enormous flowers, the ground color of which is light pink, suffused with deeper pink and shrimp-pink.....		15	\$0 75	
Royal Purple. Without a doubt this is the finest rich royal purple. A large-flowering variety, with many four-flowered sprays.....		10	50	
Tangerine Improved. This variety has been appropriately named—a deep orange, almost approaching the colors of the tangerine orange. Flowers of great size and well waved.....		15	75	
The Sultan. Almost black—deep silky maroon. Large flowers on long, strong stems.....		15	75	
Valentine. Very pretty shade of blush-pink. Flowers are large and well placed on long, stiff stems.....		10	50	
Vectis. (Duplex Type.) Enormous flowers of the purest white, with a distinct almond-like perfume. A splendid acquisition, and the finest white Sweet Pea in cultivation.....		15	75	
NEW				
Welcome. Most brilliant and dazzling scarlet Sweet Pea yet introduced. The color is what most people have in mind when they think of scarlet. It is absolutely sunproof, and the wings are exactly the same shade as the standard, giving the flower its magnificent self-color effect. The flowers are large and bold, borne on stout stems produced on a vigorous vine.....		25	1 00	
NEW				

Grand Prize Mixture Giant Summer-flowering Sweet Peas

We have made a carefully balanced selection of all colors and varieties of the Spencer Sweet Peas in this mixture, using only the finest ruffled and long-stemmed sorts. For general use and garden display, Sweet Pea mixtures of this high type are most satisfactory and much less expensive than named varieties sold separately.

Packet\$0 10 Ounce.....\$0 25 Quarter-pound.. \$0 85 Half-pound . \$1 50 Pound\$2 50

Collection of Sweet Pea Novelties. One packet each of the 10 recent introductions of merit, distinguished in the above list and that on the preceding page with the word **NEW, \$2**

Classification of Spencer Sweet Peas

For the gardener who desires the best variety under each color we submit the following:

Blue, Reflection.	Crimson, Charity, Red Boy.	Orange (Pink), Royal Pink.
Blue (Light), Blue Charm.	Lavender (Rosy), Austin Frederick Improved.	Pink (Rose), Good Cheer.
Blue (Dark), Blue Flame, Fortune.	Lavender (Pale), Gleneagles.	Pink (Pale), Lady Ruffles.
Blush (Pink), Valentine.	Lavender (Lilac), Powerscourt.	Pink (Deep), Pinkie, Eosine.
Blush (Lilac), Kitty Pierce (Duplex).	Maroon (Dark), The Sultan.	Pink (Peach), Debutante.
Cerise, Charming.	Mauve, Chieftain.	Purple, Royal Purple.
Cerise (Cherry), Conqueror.	Orange, Celebrity, Tangerine Improved, Pirate Gold.	Salmon (Orange), Gold Crest.
Cerise (Pale), Hawlmark Cerise.	Orange (Deep), Prince of Orange.	Scarlet, Welcome, Huntsman.
Cerise (Scarlet), Flamingo.		White, Avalanche, Vectis.
Cream-Pink, Mary Pickford.		

Special Color Collection of Sweet Peas

Each, pkt. 10 cts.

Ten varieties complete, 75 cts.

For the gardener who desires to grow the best Sweet Peas, but is not interested in names, and may be confused by the large number of varieties available, we have selected the best sorts we know, many of which are recent introductions and possess the following qualities:

Each is the most pleasing of its color.
Each is a variety with long flower-stalks, suitable for house-decoration.

Each is robust, with thick, strong main stems.
Each is a sort which, under favorable conditions, produces sprays of three and four fragrant blossoms.

TEN DISTINCT COLORS

- | | | |
|----------|---------------|----------------|
| 1. CREAM | 4. LAVENDER | 7. SCARLET |
| 2. BLUE | 5. LIGHT PINK | 8. CREAM-PINK |
| 3. WHITE | 6. PURPLE | 9. SALMON-PINK |
| | 10. CARMINE | |

Each, pkt. 10 cts., oz. 50 cts., 1/4 lb. \$1.50

Special Collection **75c**
One pkt. each of these 10 distinct colors

STUMPP & WALTER CO.'S SELECTED SEEDS

TAGETES

Signata pumila. A dwarf, compact, bushy annual Marigold, with beautiful, delicate, fern-like leaves, densely covered with flowers of bright yellow, striped brown; a first-class border plant. Pkt. 10 cts., ¼oz. 50 cts.

THALICTRUM (Meadow Rue)

Adiantifolium. A beautiful hardy perennial, with foliage like the Maidenhair Fern and miniature white flowers in June and July. Pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50.

Aquilegifolium. The foliage is similar to the Columbine. Rosy purple flowers in June and July. 2 to 3 feet. Pkt. 15c., ¼oz. 75c.

Dipterocarpum. Among the genus of hardy plants this is a real gem, not only for the garden, but its dainty graceful sprays of flowers elegantly arranged on stems 4 feet high, are invaluable for cutting. The flowers are a charming shade of violet-mauve, which is brightened by a cluster of lemon-yellow stamens and anthers. Pkt. 25 cts., ½oz. \$1, ¼oz. \$1.50.

THERMOPSIS

A very striking plant, 4 feet tall, producing long spikes of yellow blossoms during June and July. Hardy perennial. Pkt. 25 cts.

THUNBERGIA (Black-eyed Susan)

Beautiful, rapid-growing annual climber, preferring a warm, sunny situation; used extensively for hanging-baskets, vases, low fences, etc. Very pretty flowers in buff, white, orange, etc., with dark eyes. 4 feet. **Mixed Colors**, pkt. 10 cts., ¼oz. 50 cts.

THYMUS (Thyme)

Serpyllum. A valuable hardy perennial for the alpine garden. But 4 inches high, it is of trailing habit with bright lilac-purple flowers. Pkt. 25 cts., ½oz. \$1, ¼oz. \$1.50.

TORENIA

Fournieri. A very fine annual; splendid for vases, hanging-baskets, borders, etc. Sky-blue flowers, with bright yellow center. Pkt. 10 cts.

TRITOMA

(Red Hot Poker; Flame Flower; Torch Lily)

A perennial, not strictly hardy, but will live through the winter with a protective covering of leaves or short manure; or the roots may be lifted and carried over winter in sand in a cellar.

Express. Orange-yellow. Height 4 feet. Pkt. 20 cts., ¼oz. 75 cts.

May Queen. Yellow. Height 2 feet. Pkt. 20 cts., ¼oz. 75 cts.

TROLLIUS (Globe Flower)

Like immense buttercups, these striking plants are very effective in the mixed border. Light soil, well drained, and a partly shaded position, suit them admirably. They bloom from May to August. Hardy perennials.

	Pkt.	¼oz.
Asiaticus. Orange. Height 2 feet.....	\$0 25	\$3 50
Europæus. Yellow. Height 2 feet.....	25	1 00
Ledebouri. Orange. Height 2 feet.....	25	2 50

VALERIAN (Garden Heliotrope)

Hardy perennial. Pinnate foliage and panicles of flowers, with odor of heliotrope. 5 feet. June and July. Pkt. ½oz. Oz.

Red, White, Mixed, Each.....\$0 10 \$0 50 \$0 75

VERBASCUM

Olympicum. A stately biennial, often reaching a height of 5 feet. The large leaves are covered with a silvery down, and above them rises a pyramid of bright yellow flowers. Pkt. 25 cts., ¼oz. \$1.50.

VERONICA

Spicata. An elegant hardy border plant, growing about 1 ½ feet high, bearing all summer spikes of bright blue flowers...\$0 15

Spicata Mixed.....10

Amethystina. Amethyst-blue. Height 2 feet.....25

Incana. Blue. Height 1 foot.....25

Longifolia. Lilac. Height 3 feet.....25



S. & W. Co.'s
Mammoth Verbena

MAMMOTH VERBENAS

The trusses and individual flowers are of the largest size, of brilliant colors, free-blooming and of vigorous habit. For best and quickest results seed should be sown early in the house or hotbed, and transplanted to flowering quarters in May. If sown outdoors in May, it blooms from the end of July on.

S. & W. Co.'s Mammoth Defiance (Scarlet), **Blue**, **Pink**, **White**, **Striped**, **Yellow**, and **Mixed**.

Each, pkt. 10 cts., ¼oz. 60 cts., oz. \$2

VARIOUS VERBENAS

Lemon Verbena (*Aloysia citriodora*). Every garden should have a few plants of this fragrant favorite. Its pale green, delightfully scented foliage goes well with any flower.....\$0 10

Erinoides (Moss Verbena). This lovely variety produces a mass of moss-like foliage, spreading over the ground like a carpet, above which are borne heads of purplish blue and white blossoms in lavish profusion; comes into flower in June, and continues until frost. For beds, baskets or rockeries. ... 10

Venosa (Hardy Garden Verbena). Strong plants, 1 foot high, bear purple flowers continuously through the summer..... 25

VINCA (Madagascar Periwinkle; Old Maid)

Ornamental, free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out-of-doors in May.

	Pkt.	¼oz.	Oz.
Alba. Pure white.....	\$0 10	\$0 60	\$2 00
Rosea. Rose.....	10	60	2 00
Rosea alba. White, with rosy eye.....	10	60	2 00
Mixed	10	50	1 50

VISCARIA, TOM THUMB

This beautiful new race of Viscarias is quite unlike others, in that the plants are compact and bushy in form and bloom so freely as to be entirely covered. The plants grow evenly in height and require about the same time from sowing to blooming as sweet alyssum. Individual flowers resemble single wild roses in miniature form. We offer three distinct colors.

	Pkt.	5 pkts.
White Queen. Pure white.....	\$0 25	\$1 00
Rose Queen. Rose.....	25	1 00
Blue Queen. Bright blue.....	25	1 00

VIOLA (Tufted Pansies)

Violas bloom so freely that they are superior to Pansies where effect is wanted, the colors being particularly clear and distinct. They also bloom for a longer time.

Cornuta, Blue Gem (Jersey Gem). The flowers are a very pleasing shade of deep violet-blue, with an occasional very slight variation in tint, and may be relied on to come about 70 per cent true from seed. A great feature of this fine new variety is its wonderful power of resisting drought, the plants continuing to throw up flowers long after other varieties are withered up. Height 4 inches. Pkt. 25 cts., 1/8oz. \$5, 1/4oz. \$9.

Cornuta, Apricot Gem. An unusually fine shade, blending into a deep orange center. It is of recent introduction and proved merit, and should become as popular as Jersey Gem, with which it should be grown, thus producing in our opinion, an effect impossible to surpass with any other combination of Violas. Pkt. 25 cts., 1/8oz. \$2.50, 1/4oz. \$4.

Cornuta, Mixed. A mixture including all shades. Pkt. 25 cts., 1/4oz. \$1, oz. \$3.50.

New Large-flowering Violas

	Pkt.
Aurora. Bluish purple; immense flower.....	\$0 25
Avalanche. (New.) Immense, pure white flowers.....	50
Royal Sovereign. Fine yellow.....	25
White Queen. Pure white.....	25
Finest Mixed	25
VIOLET (<i>Viola odorata</i>). Single Sweet Violet.....	25

ZINNIA (Youth and Old Age)

The seed may be sown in a hotbed or sunny window and transplanted, or sown later in the open ground. The plants come into flower early in the summer and keep on blooming until hard frost. No annual excels the Zinnia in freedom of bloom. Splendid for garden decoration and for cutting.

Giant Mammoth or California Giants

This is a mutation from the Dahlia-flowered type. When in full bloom, they reach enormous size, but their flatness gives them a more graceful appearance in contrast with the Giant Doubles. They grow to the same height as the Dahlia-flowered and the blooms are larger.

***Cerise Queen.** Beautiful cerise-rose.

Enchantress. Light rose, with deep rose center.

Lemon Queen. Lemon-orange.

***Miss Willmott.** Soft pink.

***Orange King.** Cadmium or burnt-orange.

***Orange Queen.** Golden yellow.

Pink Profusion. Delicate shrimp-pink.

***Purity.** Pure white.

***Rose Queen.** Striking bright rose.

***Scarlet Gem.** Glowing scarlet.

***Violet Queen.** Beautiful shade of violet.

Mixed. All shades.

Each, pkt. 15 cts., 1/4oz. 35 cts., oz. \$1.25

COLLECTION: One pkt. each of above 8 colors marked *, \$1

Giant Double-flowering

Trials of this Zinnia sown in the open ground in April produced flowers 6 inches in diameter on plants 3 feet high. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 1 1/2 feet each way, as they are robust growers, and require a large amount of space to attain maximum size.

Scarlet	Salmon	Crimson	Yellow
Rose	White	Mixed	

Each, pkt. 15 cts., 1/4oz. 35 cts., oz. \$1.25

COLLECTION: One pkt. each of above 6 colors, 75 cts.
1/4oz. each of these, \$2

Tall Double-flowering Mixed. This Zinnia is similar in height and form of plant to our Giant Double-flowering except the flowers which are about two-thirds the size. Pkt. 10 cts., 1/4oz. 30 cts., oz. \$1.

Dwarf Double-flowering

This type of Zinnia, while not so tall as our Giant Double-flowering varieties, offered above, is a very satisfactory type for borders or cutting. Grows about 1 1/2 feet high; flowers perfect.

Crimson	White	Salmon-Rose	Scarlet
Canary-Yellow	Golden	Mixed	

Each, pkt. 10 cts., 1/4oz. 35 cts., oz. \$1.25

VIRGINIAN STOCKS

Sown early, these pretty annuals are gay in the period between the spring and summer flowers, their fresh, bright colors in lines and beds producing a charming effect. May be sown like sweet alyssum; excellent for the border. **White, Rose, or Mixed, pkt. 10 cts., 1/2oz. 35 cts., oz. 60 cts.**

WALLFLOWER

These half-hardy perennial and annual Wallflowers are grown for early spring bedding and for their delightful fragrance. Perennial sorts should be sown in autumn and carried over in coldframe; annual sorts may be sown indoors in March and will flower the first year from seed.

SINGLE ANNUAL VARIETIES

	Pkt.
Early Parisian. Golden, shaded orange-red.....	\$0 10
" Blood-Red. Red, orange shaded.....	10
" Golden Gem. Yellow.....	10
Single Annual Wallflower, Mixed Colors	10

The following varieties are hardy but should be sown in early fall, and carried over winter in a frame and planted out in the spring.

SINGLE—Cloth of Gold (yellow), **Eastern Queen** (salmon), **Ellen Willmott** (ruby-red), **Feltham Early** (brown-red), **Golden Glory** (old-gold), **Vulcan** (deep red), **Mixed.**

DOUBLE—Black-Brown, Canary-Yellow, Lilac, Orange-Brown, Yellow, Rosy Purple, Mixed.

Any of the above varieties, pkt. 25 cts., 5 pkts. \$1

Giant Double Dahlia-flowered

The plants attain a height of 3 feet, producing mammoth flowers averaging 6 inches across by 3 to 4 inches in depth, similar in shape to the Decorative dahlia, with the same fullness of the petals.

***Buttercup.** Very large flowers of deep creamy yellow.

***Crimson Monarch.** Immense flowers of flaming crimson.

***Dream.** Deep lavender-blue—a remarkable shade.

***Exquisite.** Light rose, with deep rose center.

Golden Dawn. A pure clear golden yellow. The flowers are of enormous size and of the most perfect type.

***Oriole.** A striking two-color flower—orange and gold.

Polar Bear. Large; finest pure white.

***Scarlet Flame.** Bright scarlet, blended with orange.

Youth. Beautiful light rose. The flowers are well formed, of true Dahlia-flowered type, grown on the usual robust Dahlia-flowered plant. A large, vigorous and free-flowering variety.

Each, pkt. 15 cts., 1/4oz. 60 cts., oz. \$2

COLLECTION: One pkt. each of 6 colors marked *, 75c.

Mixed Dahlia-flowered Zinnias, pkt. 15c., 1/4oz. 50c., oz. \$1.50

Zinnia, Lilliput

This variety forms a bush about 1 foot high, and is covered with small, very double flowers in profusion.

Canary-Yellow	Golden Gem
Scarlet Gem (Red Riding Hood)	Salmon-Rose
Crimson Gem (Dark crimson)	White Gem
Delicate Flesh-Pink	Finest Mixed

Each, pkt. 10 cts., 1/4oz. 35 cts., oz. \$1.25

Various Zinnias

Interesting types of Zinnias, both of which, on account of the odd formation of the flowers, should be more generally cultivated.

CURLED AND CRESTED. The petals of this strain are curled and crested into the most fantastic and graceful forms. Our mixture includes all the brilliant shades. Pkt. 10 cts., 1/4oz. 50c.

HAAGEANA. A dwarf, compact variety growing 9 to 10 inches high, and bearing masses of double flowers 1 1/2 inches through in a most unusual range of color—rose grounds tipped yellow, maroon ground tipped cream, yellow tipped wallflower-red. Pkt. 15 cts., 1/4oz. 75 cts.

Ornamental Grasses

The annual varieties are principally grown for their beautiful flower panicles which when dried are very useful for bouquet work. Perennial varieties are very valuable for borders or massed between shrubs or on the open lawn.

Annuals, except where otherwise stated. Sow outside in May, transplant or thin out when large enough to handle. If grasses are cut before they are ripe, they will keep for a long period.

BRIZA maxima. Considered by many to be one of the best varieties for bouquet and dried flowers. Annual. 1 foot.

COIX lacryma (Job's Tears). A strong broad-leaved grass with large shining pearly seeds. Annual. 3 feet.

ERIANTHUS Ravennæ. A hardy perennial grass resembling the Pampas, with beautiful foliage and fine silvery plumes; excellent for lawn specimens. Blooms first year from seed if sown early.

EULALIA japonica foliis vittatis. A very beautiful perennial variety used for forming large clumps. Leaves dark green, striped white. 4 feet.

ERAGROSTIS elegans (Love Grass). Annual. 1 foot.

GYNERIUM argenteum (Pampas Grass). Perennial, with magnificent silvery plumes. 6 feet.

PENNISSETUM longistylum. An annual grass with gracefully drooping heads. 2 feet.

Ruppellianum. The foliage is long and slender, gracefully curved and glossy deep green in color. If sown in March in heat, the plants should bloom by the middle of July; sown outdoors, will bloom in August. The silvery plumes, tinted with violet-purple, waving in the sunlight, are exquisitely beautiful; hardy perennial. 3 feet.

STIPA pennata (Feather Grass). With silvery white feathery plumes. Perennial.

ZEA japonica. Striped maize.

Each of the above, pkt. 10 cts. **SPECIAL COLLECTION:** One pkt. each of 10 varieties, 75 cts.

Everlasting Flowers

Sow outside in May and thin out to 6 inches

ACROCLINIUM, Double Mixed. Annual. Good for cutting. Pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

GLOBE AMARANTH (Gomphrena), **Rose, White, Purple, Mixed.** Each, pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

HELICHRYSIUM (Straw Flower). We offer six colors: **Rose Queen, Golden Ball, Snowball, Fireball, Salmon Queen, Violet Queen, and Mixed.** Pkt. 10 cts., 1/4 oz. 35 cts., oz. \$1.25.

RHODANTHE. Annual. Very beautiful, delicate-looking "Everlastings," much prized for winter bouquets. Pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

STATICE (Sea Lavender), **Mixed.** Perennial. Can be dried and used for winter bouquets. Pkt. 15 cts., 1/4 oz. \$1.

XERANTHEMUM (Immortelle). Annual. Grows 3 feet high. **Mixed,** pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

SPECIAL COLLECTION: One Mixed pkt. each of above 6 varieties, 50 cts.

Mixtures of Flower Seeds

ROCK-GARDEN MIXTURE. All the dwarf flowers, cultivated and wild, annual and perennial, that are adaptable for the rock-garden. Use it on a newly planted garden or an established one, sow it amid the rocks and boulders of your Westchester or Connecticut home. There is a peculiar charm about the new plants that seem to occur accidentally some months later. Mix seed with fine soil, 1 ounce to a pailful, and broadcast the mixture freely. Pkt. 15 cts., 1/2 oz. 60 cts., oz. \$1, 1/4 lb. \$3.50, lb. \$10.

WILD-FLOWER MIXTURE. Seeds of native plants. No garden hybrids or 'tame' plants included. Pkt. 15 cts., oz. 50 cts., 1/4 lb. \$1.75, lb. \$6.

MIXED SEEDSMAN'S FLOWERS. All the flower seeds in our establishment are included in this mixture. Suitable for broadcasting in odd corners, railroad embankments, the countryside when hiking, etc. Pkt. 10 cts., oz. 25 cts., 1/4 lb. 75 cts., lb. \$2.50.

Special Flower Seed Collections

Twelve Distinct Annuals for \$1

A popular assortment of 12 easily grown Annual Flowers in the most striking shades and colors. They all bloom within a short while after sowing seed and will furnish an abundance of flowers until frost. This Collection, if purchased separately from our Catalogue, would cost \$1.50.

ONE PACKET EACH OF THE FOLLOWING FOR \$1

Alyssum, Little Gem. White.
Aster, Lavender King.
Candytuft, Giant Hyacinth-flowered, White.
Cornflower, Blue.
Larkspur, King of the Blues.
Mignonette, Allen's Defiance.
Nasturtium, Large-flowered Dwarf Mixed.
Phlox Drummondii, Finest Tall Mixed.
Salpiglossis. Brown with gold.
Shirley Poppy. All shades, mixed.
Zinnia, Giant Double-flowering. Rose.
Hunnemannia (Yellow Tulip Poppy).

Twelve Hardy Perennials for \$1.50

An attractive assortment of twelve of the best-known and most easily grown perennials in the most attractive shades and colors. This Collection, if purchased separately from our catalogue, would cost \$2.15.

ONE PACKET EACH OF THE FOLLOWING FOR \$1.50

Alyssum saxatile compactum. Yellow.
Arabis alpina. White.
Aquilegia, Long-spurred, Mixed.
Coreopsis grandiflora. Yellow.
Chrysanthemum, Alaska (Shasta Daisy). White.
Delphinium, Gold Medal Hybrids, Mixed.
Digitalis, Giant Shirley, Mixed.
Dianthus, Double Plumarius, Mixed.
Gaillardia grandiflora. Copper-red.
Forget-me-not, Royal Blue.
Poppy, Oriental. Scarlet-red.
Pyrethrum, Double Hybrids. Pink.

Twelve Rock-Garden Perennials for \$1.50

An attractive Collection of 12 of the best and most easily grown perennials most suitable for the rock-garden. This Collection, if purchased separately from our Catalogue, would cost \$2.35.

One packet each of the following for

\$1.50

Alyssum saxatile compactum. Yellow.
Arabis alpina. White.
Armeria Lauchiana. Crimson.
Campanula carpatia. Blue.
Candytuft, Sempervirens. White.
Cheiranthus Allionii. Orange.

Dianthus Allwoodii. Mixed.
Geum, Lady Stratheden. Yellow.
Linum perenne. Blue.
Polyanthus, Giant. Mixed.
Poppy, Iceland. Scarlet.
Sedum acre. Yellow.



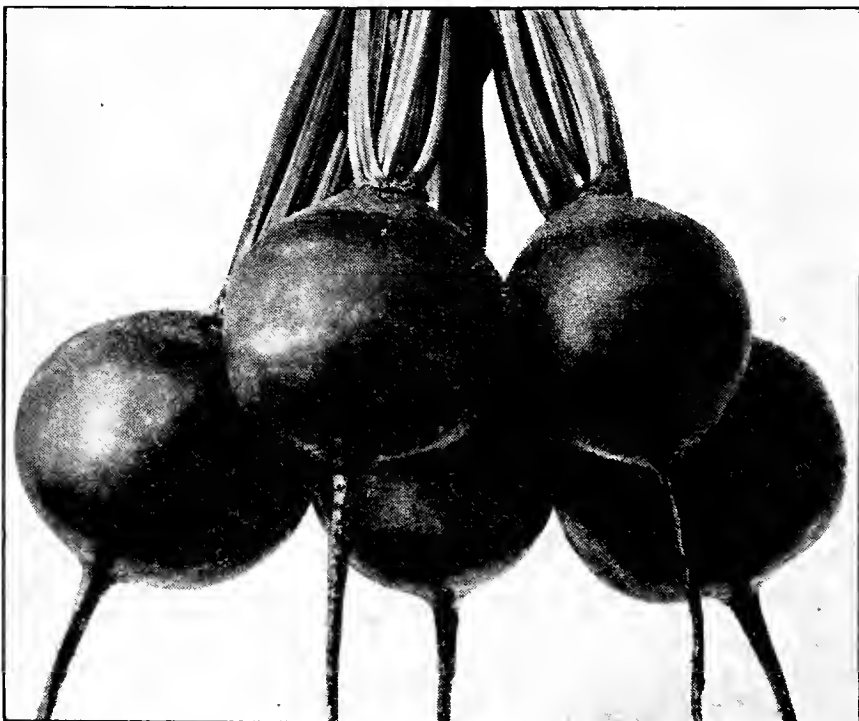
A striking display of Vegetables exhibited by H. McK. Twombly Estate (Robert Tyson, Superintendent), Convent, N. J. Photographed at the November Show of the New York Horticultural Society, Museum of Natural History, New York City. The H. McK. Twombly Estate is a patron of Stumpp & Walter Co. of twenty-six years' standing.

New and Improved Vegetables

For the Gardener who wishes to produce the utmost in delicious flavor, or who aims to win high honors on the exhibition table

Tendergreen Bean

Handsome, 6-inch, round-podded Beans, entirely without strings at all stages of their growth, and of fine melting flavor, are produced in great abundance by this new sort. A fine Novelty, desirable from every standpoint. **Pkt. 15 cts., 1/2lb. 30 cts., 1b. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**



Good for All Beets

New Stringless Valentine Bean

It took twelve seasons of hybridizing and selection to produce this fine improvement on the reliable Black Valentine. Absolutely stringless, it is a heavy yielder of green, pencil-shaped, thick, meaty Beans of the finest flavor. Easy to grow, not over-sensitive to cold weather in spring, it is the safe variety for the home-garden, the private estate, and the commercial grower. **Pkt. 15 cts., 1/2lb. 30 cts., 1b. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

Pole Lima Bean, Sunnybrook

Earliness, productiveness, and flavor are the outstanding points of this Bean. It is probably the quickest of all the Pole Limas to mature, and it is covered from ground to top with pods containing 4 or 5 fine Beans of quite the best quality, tender and sweet. **Pkt. 15 cts., 1/2lb. 30 cts., 1b. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

New Forcing Bean, The Prince

Without a question, the finest forcing Bean yet introduced. It is quick to mature and crops enormously. The pods are without strings, meaty, of fine flavor and immense size—11 to 12 inches not being unusual. **Pkt. 25 cts., 1/2lb. 45 cts., 1b. 85 cts., 2 lbs. \$1.50, 5 lbs. \$3.40, 15 lbs. \$9.**

New Beet, Good for All

Wonderfully refined flavor, without earthiness and woodiness; uniformity in shape; regularity in size and color—these are the outstanding qualities of this Beet. A perfect globe, smooth and even, it has a collar or neck that is very small, because the leaf-stalks are narrow. The foliage is sparse and short—barely a foot—and gray-green. Flesh is very free from rings or zones, being a uniform deep crimson-vermilion. A fine variety which should be in every garden during 1933. **Pkt. 15 cts., oz. 30 cts., 1/4lb. 90 cts., 1b. \$2.50.**



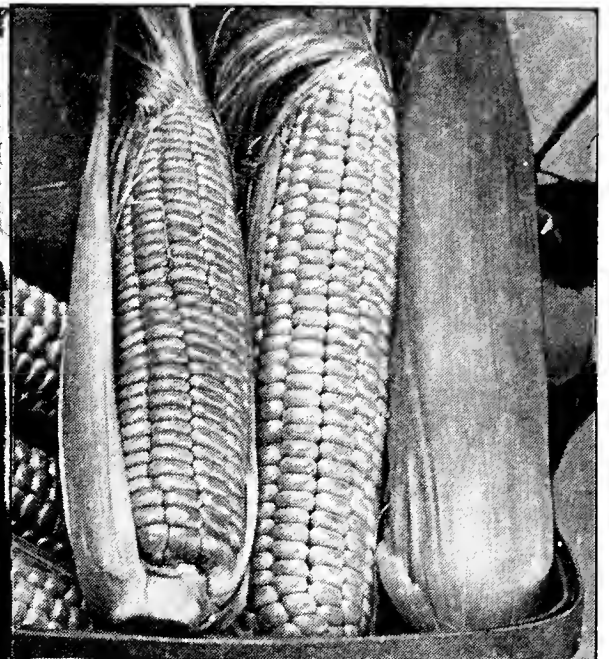
N. Y. Market Broccoli



Emperor Carrots



Earligreen Celery



Spanish Gold Corn

New York Market Sprouting Broccoli

A comparatively new vegetable to the American table, but one which has found favor in Europe for many years. It is preferred by many to cauliflower, and while it is somewhat akin to it, it has a more decided and distinctive flavor. It furnishes healthful and delicious boiling "greens" during summer, autumn, and early winter.

The plant branches freely. At first it produces a closely massed head, the size of a cocoanut, of green buds; this is termed the "king" sprout. When the buds are half developed and before any burst into flower, the head is cut, with the surrounding leaflets, and together they are boiled and served exactly like cauliflower, except that more of the leaves are edible. Later, similar heads appear at the ends of the branches, to be gathered and served in a like manner.

Cultivate like cabbage. Seed may be sown in February or March under glass, and in the open ground until July. Space the plants about 2 ft. each way. Light frosts improve it rather than otherwise. In warm sections south of New York, it may be grown to stand in the fields for an appreciable period of the early winter. **Pkt. 15 cts., 1/8oz. 40 cts., 1/4oz. 75 cts., 1/2oz. \$1.25, oz. \$2.**

Brussels Sprouts, Favorite

A half-dwarf strain of this fine vegetable, thickly covered with crowded, tight Sprouts, tender and delicious. Sow in May, in shallow drills, 1 inch deep and 12 inches apart. Transplant in July. When the crown, or top sprout is beginning to head, pinch it out, to admit of the whole strength being thrown into the side shoots. Very hardy. This is a delicious vegetable and should find a place in every garden; greatly improved by first frosts. One ounce of seed will produce about 3,000 plants. **Pkt. 15 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$3.**

Golden Plume Celery

Golden Plume Celery fills a want that both amateur and professional gardeners have long felt. It is a much-improved form of Golden Self-Blanching, and the improvements are (a) superior table quality, (b) wonderful golden color, (c) marked resistance to blight and rust, (d) earlier maturity, (e) superior keeping qualities, (f) increased size. It possesses a fine, nutlike flavor, and is handsome in appearance. **Pkt. 25 cts., 1/8oz. 75 cts., 1/4oz. \$1.25, 1/2oz. \$2, oz. \$3.50.**

Earligreen Celery

Earligreen is the finest, earliest green Celery, and is a fitting counterpart to Golden Plume. Plant is surprisingly large for an earliest early sort. The outer leaves are green, and the very full heart is pure white, brittle, and of the most delicious flavor. It is of sterling merit. **Pkt. 25 cts., 1/8oz. 75 cts., 1/4oz. \$1.25, 1/2oz. \$2, oz. \$3.50.**

New Corn, Spanish Gold

A 10- and 12-rowed Corn of the most delicious melting flavor you have ever tasted. The ears are 6 to 7 inches long, packed with bright golden yellow kernels, thick, tender and of melting sweetness. A rather dwarf kind, taking up little space. Grow it somewhat closer than usual. Economical of room and of marvelous quality, it is, by all odds, the Corn for the home-garden, the private estate, and the grower for local market. **Pkt. 15 cts., 1/2lb. 30 cts., 1lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.75.**

Golden Acre Cabbage

A small but very fine variety, as early as Jersey Wakefield, but with round, solid heads. The few outer leaves are small, permitting close planting and making it very suitable for growth under glass and for the suburban gardener. Golden Acre produces uniform, tightly folded, and well-blanching heads of the best mild table quality. **Pkt. 15 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$3.**

Emperor Carrots

This meets the modern demand for a Carrot, long enough and large enough to furnish the maximum yield off a given area, and at the same time be a rich red color, of high culinary quality, free of core and of fiber. In shape it is an elongated Danvers type, round-shouldered, almost cylindrical for the first 6 inches, then gradually tapering to a graceful point. A fine commercial sort, and excellent for the private estate or home garden also. **Pkt. 15 cts., oz. 35 cts., 1/4lb. \$1, 1lb. \$3.**

Early Cauliflower, Best of All

The easiest grown and surest heading Cauliflower offered today. In habit the plant is very dwarf, stocky, and erect. It has very few outer leaves and, as a consequence, the young Cauliflower plants may be planted less than 2 feet apart each way. Large, handsome heads, solid, fine-grained, pure white, and of good table quality. To be successful with Cauliflower, rich soil and abundant moisture at all stages of development are essential. Solid heads are not formed in hot, dry climates. **Pkt. 25 cts., 1/8oz. 90 cts., 1/4oz. \$1.65, 1/2oz. \$3, oz. \$5.**



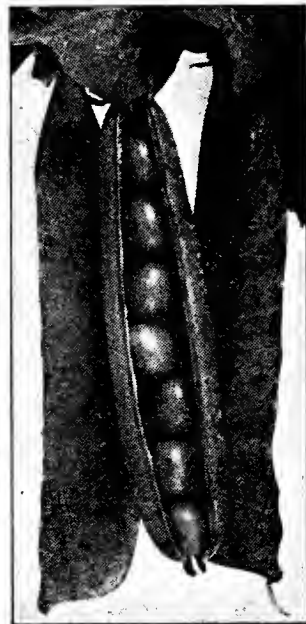
Best of All Cauliflower



Silverheart Kale



Gigantic Gibraltar Onion



Delicious Peas

Cucumber, The Lemon

Not a new sort, but one that really is of great value on account of the large number of fruits one plant will produce. A sort for the thrifty gardener because it is by far the most prolific Cucumber we know, and its edible qualities are unsurpassed, although its shape and the color of the skin of the ripened Cucumber may seem unusual. It stands hot weather well, is resistant to drought, and withstands disease to a remarkable degree. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Silverheart Kale

The most delicious of the autumn "greens," and handsome plants withal to decorate anyone's garden. Sown in May, and transplanted 2 feet apart, you gather in October and November beautiful frost-crisped plumes of health-giving leaves. This particular sort, which we import from Europe, is new. It is a tall Kale, the top leaves of which turn to a creamy white after first frosts; this enhances the fine flavor and tenderness as much as does the bleaching of endive or celery. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Kohlrabi, Earliest Selected

This strain cannot be surpassed for refinement of flavor, being small, tender, and free from string and woody fiber. The leaves are few and small, so this Kohlrabi may be used for forcing, as well as summer gardening. For the same reason, in the open ground, both the rows and the plants in the row may be close together, making it a most economical sort for the amateur whose garden-space is limited. Of the simplest culture, it is a most healthful vegetable; when cooked lightly it furnishes all vitamins, especially B and C, helping to ward off digestive troubles and maintaining bodily stamina. **Pkt. 15 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.**

Leek, Exhibition

By far the best of the long-necked, blanching varieties we have ever offered. To get the best results with this seed, sow early, plant in rich, deep, well-manured land, and water copiously in dry weather; when half-grown, commence giving weak liquid manure. This seed, furnished prominent exhibitors for some years past, has been pronounced quite the best they have grown. **Pkt. 25 cts., 5 pkts. \$1.**

Golden Delicious Muskmelon

Golden! Delicious! How better could we describe the thick flesh of this, the best Muskmelon of recent introduction? Its remarkable speed from seeding to yield is one of its most valuable qualities—a quick crop, enabling radish or lettuce to precede it and endive to follow it on the same garden-plot. Thus the thrifty gardener may win three crops in one season off the same piece of land. **Pkt. 15 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.**

New York or Wonderful Lettuce

It is so distinct that, with its crisply curled leaves, very dark color, and remarkable size, it may puzzle even the experienced grower if unacquainted with it. In the locality of New York City, the soil and often the climate are not altogether favorable to the cultivation of heading Lettuce, but this is a sure-producing variety, suitable both for spring and late summer planting. The big, compact, white heads are of the best possible quality. Heart is large, white, crisp, and very compact. It needs 50 per cent more room in which to grow than the average Lettuce. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1.10, lb. \$3.25.**

Thanksgiving Day Lettuce

The best Lettuce for sowing during the hot days of August to produce a crop in the late autumn. Under these severe conditions, most varieties will "bolt" into flowers and fail to form a head. Thanksgiving Day, however, grows steadily along to mature at a time when most garden-crops are over. While the outer leaves of this variety take on the sere and yellow look of autumn, being fringed and brown in color, the close, tight head is of bright fresh golden green, good to look upon, crisp, short, and of splendid flavor. It is a good early Lettuce too. **Pkt. 15 cts., oz. 50 cts., 1/4lb. \$1.40, lb. \$4.**

Gigantic Gibraltar Exhibition Onion

Similar in appearance to Prizetaker, except that it is lighter in color, and, while larger in size, is a splendid keeper and decidedly mild. In some cases Gigantic Gibraltar Onions have weighed 3½ pounds. To grow these large exhibition specimens, seeds are sown early in February, in a hotbed or greenhouse, and the seedlings are transplanted. **Pkt. 15 cts., 1/2oz. 30 cts., oz. 50 cts., 1/4lb. \$1.40, lb. \$4.**

Delicious Pea

A splendid new and distinct wrinkled Pea. The dark green, stocky, vigorous vines are only 2 feet high, but they are covered with an abundance of large, long, tightly filled pods; in them are as many as nine or ten big, sweetly melting, delicious Peas. The crop may be gathered about 75 days after seeding; hence Delicious fills well the gap between early and late sorts. **1/2lb. 30 cts., lb. 55 cts., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.**

"Sawco Forty" Pea

Enormous pods! A dwarf plant which requires no brush to support it. Exceptionally stocky in growth, with heavy, bluish leaves. A midseason type, producing the largest and longest pods we have seen in Peas grown in the United States. They are 5½ to 6½ inches long! At a flower show last year, where pods of this variety were being exhibited, some wag placed a sign above them reading, "These are Peas, not Bananas," and their cooking quality is of the best. **1/2lb. 30 cts., lb. 55 cts., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.**



"Sawco
Forty" Pea



20-Day Leafless Radish Mammoth N. Y. Swiss Chard



S. & W. Co.'s Emerald Standing Spinach

Mustard Spinach

A new vegetable for boiled "greens." Very healthful and palatable to a marked degree. It has a pleasant Spinach flavor, but many children who do not like Spinach will relish this. Very quick to grow—you will be commencing to cut within a month of sowing seed. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

California Wonder Pepper

The most tender Pepper you can grow, and the meatiest, because it has the thickest flesh, and one of the sweetest to boot. Its scarlet fruits are tremendous, sometimes measuring 6 inches deep and 6 inches through. It resembles Chinese Giant, but it is larger and better. **Pkt. 15 cts., 1/2oz. 65 cts., oz. \$1.10, 1/4lb. \$3.**

Twenty-Day Leafless Radish

The quickest maturing of all Radishes. Ready in 20 days. Radishes are oval, bright scarlet with a tip of white; flesh clear white, solid, crisp and of excellent flavor. The plant gives but two small leaves, just sufficient for bunching. Suitable for forcing and outdoors in spring and fall. **Pkt. 15 cts., oz. 45 cts., 1/4lb. \$1.30, lb. \$3.50.**

Rucola or Italian Rocket

Eruca sativa

The young leaves of this plant are eaten as a salad and are used for flavoring soups. Seed may be sown at any time in the open ground, and within two months the first cutting may be taken. In moist, cool weather, additional cuttings may be made, but in the hot months it rapidly runs to seed. Popular in southern Europe, but hitherto little known in this country. A health-giving vegetable of great value—everyone should grow it. **Pkt. 15 cts., oz. 45 cts., 1/4lb. \$1.35, lb. \$3.75.**

S. & W. Co.'s Emerald Standing Spinach

A very large and vigorous type of compact, flat, spreading growth. The leaves are large, thick, slightly crumpled, very fleshy, and carried on long stems. The color is a very dark green. The most important point about this Spinach, however, is that *it stands fully one month longer than any other variety* before bolting to seed. In spite of this, it is quite early to mature, and is a variety to be recommended from every point of view. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 50 cts., lb. \$1.25.**

Blight-resistant Spinach

A strain of the popular Savoy-leaved Spinach which has been developed at the Virginia Experiment Station with a view to immunity to disease. Results have shown that it may be grown successfully on soil infected with blight and on which ordinary Spinaches cannot thrive. Since this variety tends to bolt to flower as soon as the weather becomes warm, we do not advise extensive seedings late in spring. Good early spring and late summer sort. **Pkt. 10 cts., oz. 15 cts., 1/4lb. 35 cts., lb. \$1.**

Perpetual Spinach

The seed of this desirable plant may be sown any time from April to June, and in six weeks cutting may commence, to continue right through into fall, for perpetual Spinach is highly resistant to frost. The "greens" furnished are similar in flavor to true Spinach, the leaves being very tender, even when allowed to grow large; they are both palatable and healthful. Cut the leaves about 3 inches from the ground. We offer a special strain of seed. **Pkt. 15 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.**

Table Queen Squash

Here is a Squash that bakes splendidly and makes excellent pie. One of the earliest to produce, the fruits are the shape of an acorn, 6 inches long by 4 1/2 inches in diameter, dark green shell, but the flesh is light yellow and thick, because the seeds are few. A trailing summer Squash that should be in everyone's garden. **Pkt. 15 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.**

Mammoth New York Swiss Chard

This is a new and quite distinct sort, medium green in color, and of large size. The leaves are smooth, and the stalks are solid, thick, and of a pearly whiteness. Careful breeding has entirely eliminated the earthy flavor which many Chards possess. We anticipate a large demand for this variety. **Pkt. 15 cts., 1/2oz. 30 cts., oz. 55 cts., 1/4lb. \$1.75.**

Scarlet Topper Tomato

This already has made a large name for itself for yield, meatiness, fine flavor, and small seed-cavity. Coming into bearing ahead of most sorts, it continues to yield after many others have ceased. A large scarlet fruit, deeply globular in shape, it is just the size and shape for slicing economically. Resistance to wilt and rust has been bred into this variety like the celebrated Marglobe. **Pkt. 20 cts., 1/4oz. 30 cts., 1/2oz. 50 cts., oz. 90 cts., 1/4lb. \$2.75.**

Marglobe Tomato

This is a large Tomato of the globe type, in color a fine scarlet, and of delicious table quality. It fruits early and continues to yield up to frost. Its remarkable feature is its *strong, robust constitution*; it resists wilt and is immune to rust, and will therefore produce healthy fruit during long periods of wet, unfavorable weather. Marglobe is recommended for the large estate and for the home-garden; for the market grower, the shipper of car-lots, and for the canner. Also, it performs splendidly under glass, forcing well. **Pkt. 20 cts., 1/4oz. 30 cts., 1/2oz. 50 cts., oz. 85 cts., 1/4lb. \$2.50.**

Zucchini

The true Italian Squash that is served everywhere in southern Europe and which has been meeting with great favor in the leading hotels in this country. It is a delicious summer variety, very prolific, tender, and of very mild flavor. The fruits should be gathered when they are 5 to 8 inches in length. May be prepared in the same manner as any other Squash, while if fried in the same way as egg-plant, you will find it delicious. **Pkt. 20 cts., oz. 65 cts., 1/4lb. \$1.75.**



Zucchini Squash

Invest Your Leisure in Vegetable-Growing

It assures a positive return in health, nutrition, and interest. The food you grow is so much better than the food you buy because it is fresher, more palatable, contains more vitamins, is more varied. From even a small plot, the produce is so abundant that often you have food to spare for less-fortunate neighbors.

Vegetable-growing is easy. In many homes a portion of the lawn may be spared for a season, dug up, and fertilized. A space 25 feet by 50 feet is ample to furnish delicious Beans and Beets, Tomatoes and Lettuce, and a dozen other fine vegetables for a family of four.

General List of High-Quality Vegetable Seeds and Roots

The varieties we offer are reliable, and the seeds and roots have been harvested, graded, cleaned, tested, and packed with scrupulous care, hence they may be planted with the utmost confidence. Our Seeds will be found of the *Highest Germination*.

Our 1933 prices on Vegetable Seeds are lower than they have been for many years.

ASPARAGUS ROOTS

The demand for Asparagus as an early spring vegetable is becoming quite popular. It is generally thought that it requires too much space for growing, but a plot 6 feet wide and 50 feet long will be sufficient to plant 100 of our Extra-Choice or Mammoth roots, enough for an ordinary family. Roots of this size should be planted, as they will yield Asparagus quickly.

CULTURE.—Dig a trench 1½ feet deep and 1 foot wide, and fill in about 4 inches with well-rotted manure, tread down firmly. On this put about 5 inches of good, rich soil, and then lay the roots in, about 18 inches apart, taking care to spread well, having the crown in an upright position. Cover to within 4 inches of the top of the trench and, as the plants grow, gradually fill the trench to the surface. For spacing between the rows allow 18 inches.

PEDIGREED MARY WASHINGTON.

	100	1,000
Extra-Choice Roots.....	\$4 50	\$40 00

CONOVER'S COLOSSAL. A mammoth bright green sort, the tips of which are often tinged purple. Very tender and of good quality—quite the best of the older standard kinds.

	100	1,000
Mammoth Roots.....	\$3 00	\$27 50

Customer pays Express or Freight charges on Asparagus Roots

ASPARAGUS SEED

One ounce will plant about 50 feet of drill

PEDIGREED MARY WASHINGTON. (Reselected Seed.) One of the difficulties in growing Asparagus is the damage often done by rust. Dusting with powdered sulphur when the plants are wet with dew is good practice, and spraying with Bordeaux Mixture is also to be recommended. The best procedure, however, is to plant only rust-resistant varieties, and Reselected **Pedigreed Mary Washington** is the most highly resistant type we know. Seed, pkt. 20 cts., ½oz. 50 cts., oz. 90 cts., ¼lb. \$2.75, lb. \$8.50.

CONOVER'S COLOSSAL. The standard variety. Reliable. Seed, pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. \$1.50.

NOTE.—For the Asparagus beetle, spray with arsenate of lead, offered on page 172.

ARTICHOKE

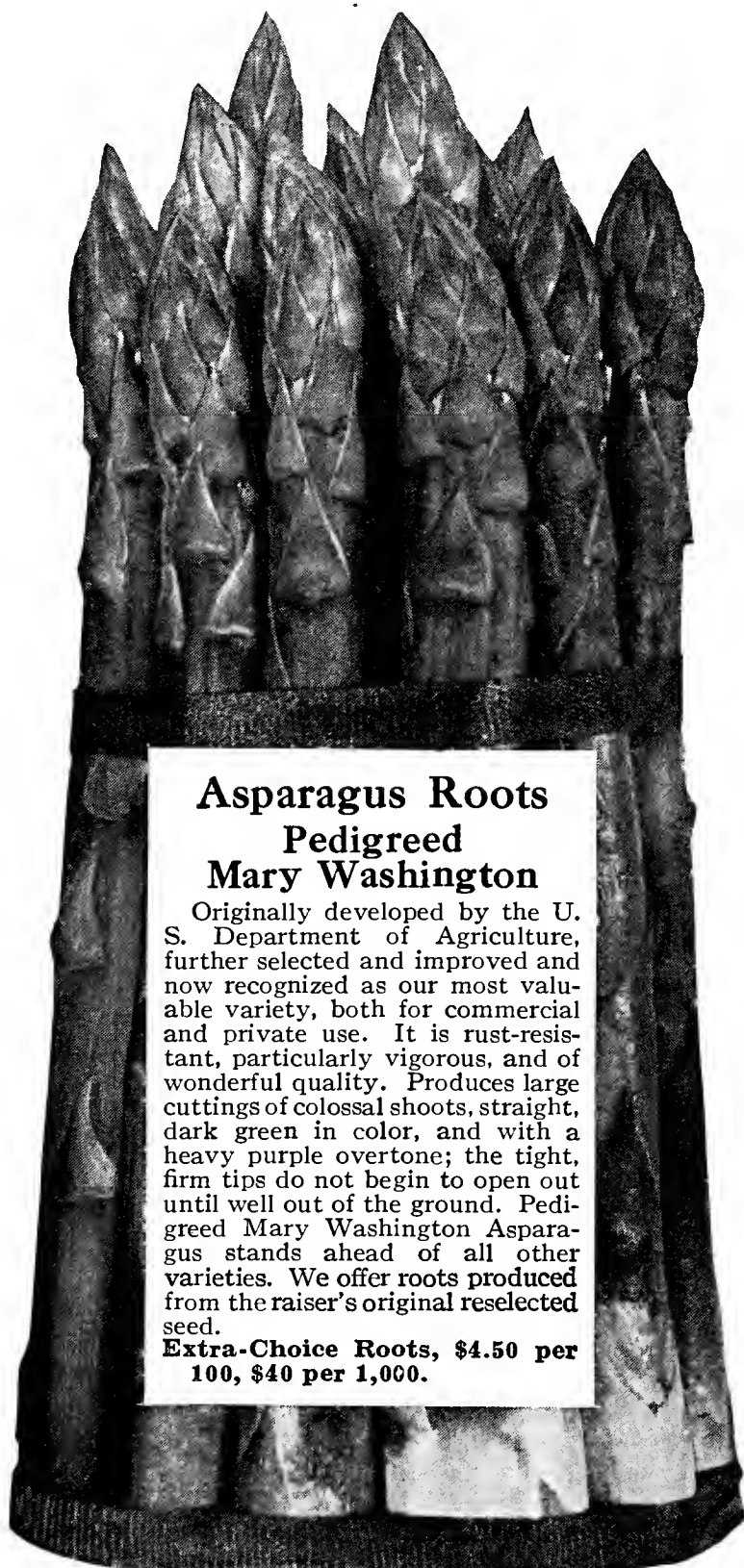
One ounce will produce 500 plants

The scales and bottom of the flower-heads are eaten, either boiled, or raw as a salad. The young suckers are sometimes tied together and blanched and served in the same manner as asparagus. The plants thrive best in deep, rich soil where the water will not lodge in winter-time. Sow seeds indoors, and pot up similar to tomatoes, setting out in May, in rows 3 feet apart, leaving 2 to 3 feet between the plants. Some flower-buds may be had the first year. Cover with ashes and leaves in winter. Usually bears best the second year.

Large Green Globe. The best variety. Pkt. 20 cts., ½oz. 50 cts., oz. 90 cts., ¼lb. \$2.50.

ARTICHOKE TUBERS

Jerusalem Artichoke. Distinct from the Globe, and propagated by and for the tubers. Plant in rows, 3 feet apart and 1 foot apart in the row, and cultivate occasionally. Allow the tubers to remain in the ground until needed. They are excellent served boiled, like new potatoes; valuable also for feeding stock. Qt. 50 cts., pk. \$3.



Asparagus Roots Pedigreed Mary Washington

Originally developed by the U. S. Department of Agriculture, further selected and improved and now recognized as our most valuable variety, both for commercial and private use. It is rust-resistant, particularly vigorous, and of wonderful quality. Produces large cuttings of colossal shoots, straight, dark green in color, and with a heavy purple overtone; the tight, firm tips do not begin to open out until well out of the ground. Pedigreed Mary Washington Asparagus stands ahead of all other varieties. We offer roots produced from the raiser's original reselected seed.

Extra-Choice Roots, \$4.50 per 100, \$40 per 1,000.

Mary Washington Asparagus

LIMA BEANS

(Dwarf Bush)

One pound will plant 50 to 100 feet of drill

Fordhook. A dwarf form of the popular Challenger or Potato Lima, and earlier. Both pods and Beans are almost twice the size of the Kumerle Bush Lima. Pods measure 4 to 5 inches, frequently containing 4 fine Beans of the finest flavor. **Pkt. 10 cts., 1/2lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.**

New Improved Bush Lima. A fine standard Bush Lima and the pods are large in size and are well filled with larger and thicker Beans. A great producer; growth vigorous; the blossom-bearing stalks are thrown well out of the foliage, and the Beans are ready for picking very early. **1/2lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.**

Early Giant. A quick-growing variety. The short period in which this Bean matures enables it to be *grown for succession*, sowings being made from May 15 to July 10 in the neighborhood of New York. Other varieties of Lima Beans take so long to mature that more than one seeding is barely practicable with them. The flavor of this variety is particularly refined, and the fine, luscious Beans, which are large, thick, and flat are produced in remarkable quantity. **Pkt. 15 cts., 1/2lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

Henderson Bush Lima. Both pods and Beans are small, but they are produced in large quantities. The standard Lima for canning. **1/2lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.**

CULTURE OF LIMA BEANS

Don't waste your seed by sowing Lima Beans before all danger of frost is over and the soil is thoroughly warm. Sow **Bush sorts** in rows 2 feet apart and about 3 inches deep, putting the Beans 2 inches apart in the row "eye down," later thinning so that the plants stand 6 to 8 inches apart. For **Pole varieties** put six seeds in each hill, arranging the hills 3 feet apart each way. They require a pole 7 feet high, and when the vines have reached the top, pinch them and so increase the yield. Some gardeners plant under glass and transplant about the time seeds are usually sown. Limas always do best on a nice, rich, loamy soil. Surplus stock may be ripened on the vines, dried and kept for winter use.

BEANS

1/2 lb. equals about 1/2 pint
1 lb. equals about 1 pint
2 lbs. equal about 1 quart
15 lbs. equal about 1 peck

Fordhook Bush Lima Beans

LIMA BEANS (Pole)

One pound will plant 50 hills

S. & W. Co.'s Green-seeded. The vine is very strong, of vigorous growth, with many large runners or branches, producing a great many fine pods which are closely filled with large Beans, many of the pods containing four. This is a broad-seeded Bean, much nearer to having every Bean perfect than any other Pole Lima. The green tint is a distinctive feature of this Bean, for it retains this tint in the dry state to a greater extent than usual, which indicates the good qualities which it possesses, being fine-flavored and more tender when cooked than white-seeded Beans, and making it more pleasing to gardeners and housekeepers. It is the most perfect Pole Lima. **1/2lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

Early Leviathan. A very early variety; produces pods in clusters. A splendid variety where the season is short. **Pkt. 10 cts., 1/2lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.**

Challenger, or Potato. Early and more prolific than the large Lima; a small Bean of decidedly excellent flavor. **1/2lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

Ford's Mammoth. Very large pods, frequently measuring 9 inches long; Beans flat and large; fine for the home-garden; productive and of good flavor. **1/2lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$4.50.**

Sunnybrook. See page 72. **Pkt. 15 cts., 1/2lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

SPECIAL FREE DELIVERY. We deliver vegetable and flower seeds free to any point in the United States at prices listed in this Catalogue.



S. & W. Co.'s Green-seeded Pole Lima Beans

DWARF or BUSH BEANS

One pound will plant
100 feet of drill

CULTURE.—Plant as soon as danger of frost is over, placing the seeds 2 to 3 inches apart in drills and about 2½ inches deep. The rows should be about 2½ feet apart, and the soil slightly hilled, to insure good drainage and to keep the Beans from touching the ground. Most Beans should be picked when about 4 inches long. Frequent pickings insure a more prolonged bearing season. Avoid jerking the plant, as this frequently disturbs young feeding-roots. Use the finger-nails to sever the stems. Do not cultivate or pick when bushes are wet, as this may cause blight and rust. For succession in the home-garden plant 30 feet of row every other week up to August 1.

GREEN-PODDED BEANS

Bountiful. To this Bean belongs the distinction of being one of the best **flat, Green-podded Bush Beans**; very prolific and a continuous bearer from early spring to late fall. It is tender and of delicious flavor. Is as entirely stringless as the breeder has been able to make a flat, green-podded Bean. Its pods contain a little more fiber than Stringless Green-Pod of like age, but they average large and are entirely stringless until they become longer than 5 inches. One of the earliest Bush Beans. **Pkt. 10 cts., ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.**

Stringless Green-Pod. This Bean remains among the very best first-early round-podded Bush Beans. A very free bearer; entirely stringless; averages 5 inches long and is slightly curved. A handsome sort, borne on a healthy plant which stands dry weather well. **½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.**

Giant Stringless Green-Pod. Pods greatly resemble those of Stringless Green-Pod. Fully an inch longer in size and a trifle later. A variety that is largely grown for the market on account of its size and good shape. Splendid sort for succession when planted with Stringless Green-Pod. **½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$4.50.**

Black Valentine. A Bean used extensively in the South on account of its heat-resisting qualities. Matures early, producing long, round, straight pods, which are tender when young. Perfects the crop all at once, hence valuable as a market sort. **½lb. 20 cts., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.30, 15 lbs. \$3.50.**

New Stringless Valentine. A new stringless Black Valentine sure to become very popular. See page 72. **Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

Early Red Valentine. This variety is valuable on account of its earliness. Pods very fleshy, round and saddle-backed, with slight strings. **½lb. 20c., lb. 35c., 2 lbs. 65c., 5 lbs. \$1.50, 15 lbs. \$3.75.**

Dwarf Horticultural. Pods medium length, slightly curved, and when nearly developed are splashed with bright red on yellow. The green-shelled Beans are of fair size, tender, and fine flavored. **½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$4.50.**

Full Measure. A fine, stringless Bean of splendid melting quality, round-podded, excellent for the table and for preserving. **½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.**

Longfellow. Extra-early, producing long, round, green pods which are tender, brittle, and stringless when young. **½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$4.50.**

Stringless Refugee. A very heavy cropper; its flavor is wonderful and it is absolutely stringless. Valuable for immediate use, for pickling or for canning. **½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$4.50.**

Refugee or 1,000-to-1. One of the latest Beans. The pods are nearly round, light green, 5 inches long, terminating in a slender point; fleshy, brittle, with but slight strings. **Pkt. 10 cts., ½lb. 20 cts., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.30, 15 lbs. \$3.50.**

Tendergreen. (New.) A round-podded, stringless Bean of remarkable quality. See page 72. **Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.**

BEANS FOR GROWING UNDER GLASS

The Prince. A new variety, quick to mature and cropping enormously. The pods are without string, meaty, of fine flavor and immense size—11 to 12 inches being not unusual. **Pkt. 25 cts., ½lb. 45 cts., lb. 85 cts., 2 lbs. \$1.50, 5 lbs. \$3.40.**

S. & W. Co.'s Wonder. Of fine color and refined flavor. The pods are round, average 6 inches in length, and they are borne in great abundance. **½lb. 35 cts., lb. 60 cts., 2 lbs. \$1.10, 5 lbs. \$2.50.**

Magpie. This is a wonderful Bean of European origin, and is so named because of its speckled black-and-white seeds. Plant is of very strong growth, stocky, and resistant to rust. The pods are long, meaty, and of the finest flavor. An enormous producer, suitable for outdoors and under glass. **½lb. 35 cts., lb. 60 cts., 2 lbs. \$1.10, 5 lbs. \$2.50.**

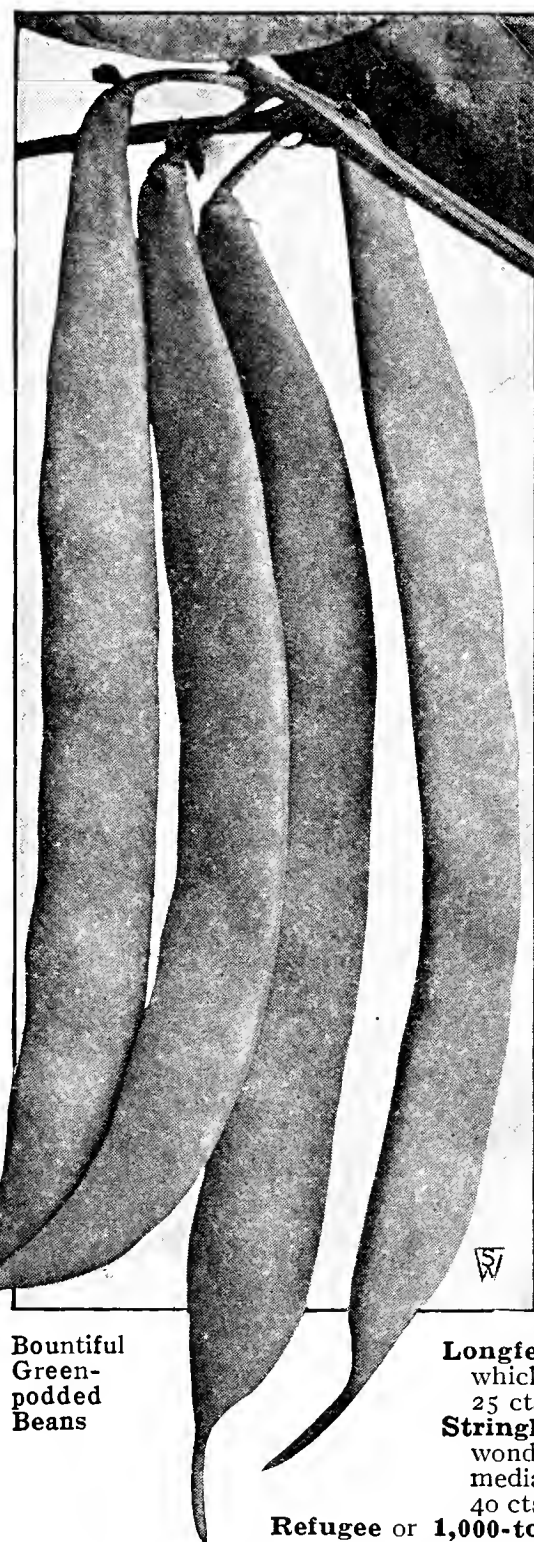
Masterpiece. Of splendid constitution, a quick grower and very prolific, the pods attaining a length of over 7 inches, straight, tender, meaty and stringless. Bean thick-flat. **½lb. 35 cts., lb. 60 cts., 2 lbs. \$1.10, 5 lbs. \$2.50.**

BEANS FOR DRY SHELLING

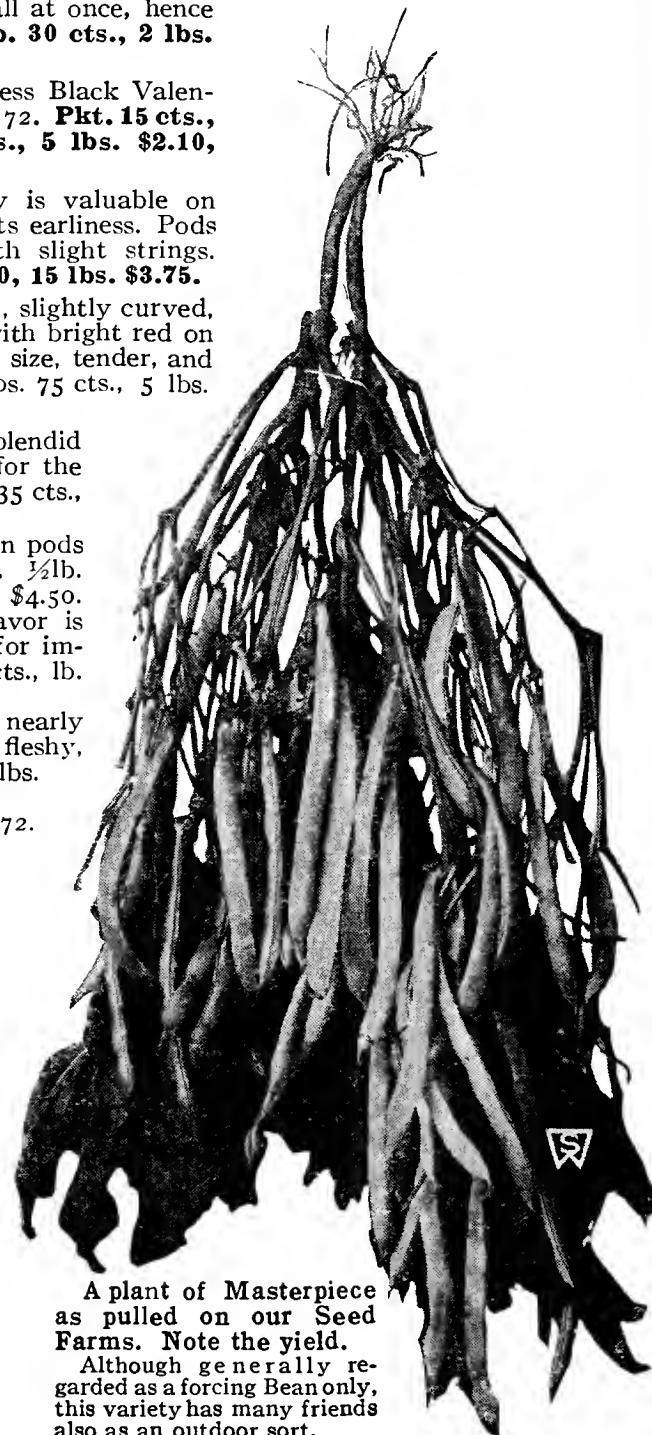
Pea or Navy. **½lb. 15 cts., lb. 25 cts., 2 lbs. 45 cts., 5 lbs. \$1, 15 lbs. \$2.75.**

Boston Marrow. **½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.**

Red Kidney.



Bountiful
Green-
podded
Beans



A plant of Masterpiece
as pulled on our Seed
Farms. Note the yield.

Although generally regarded as a forcing Bean only, this variety has many friends also as an outdoor sort.

DWARF or BUSH WAX-PODDED BEANS

One pound will plant 100 feet of drill

Sure-Crop Stringless Wax. The plant grows to a large size and, having a strong, thick stem, stands up well even during a long season of stormy weather, thus protecting the pods from dirt and dampness. It is very productive, bearing in great abundance large, handsome, golden yellow pods which are stringless and tender at all stages of development. Being very hardy, the seed may be planted early. **Sure-Crop** is more rust-proof and will stand a longer season of damp, wet weather than any other Stringless Wax Bean. $\frac{1}{2}$ lb. 20 cts., 1b. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.

Hardy Wax. One of the best round-podded stringless Wax Beans ever evolved. The plants have thick, leathery leaves which resist cold, blight and plant diseases to a marked degree. Within 65 or 70 days of planting, Hardy Wax bears immense crops of slightly curved deep yellow pods of excellent, brittle quality. Remains in bearing for a remarkably long period. $\frac{1}{2}$ lb. 30 cts., 1b. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.

Brittle Wax. Without a doubt the earliest of all Wax Beans; also a great cropper. The bushes are remarkably hardy and extremely prolific, while the pods are fleshy and entirely stringless, often measuring $4\frac{1}{2}$ to 6 inches long. They are of fine flavor, round and solid, tender, brittle and entirely stringless at all stages of growth. The pods have white seeds showing only a small black dot at the eye and where a surplus is allowed to ripen fully they make excellent Shell Beans. $\frac{1}{2}$ lb. 25 cts., 1b. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$4.50.

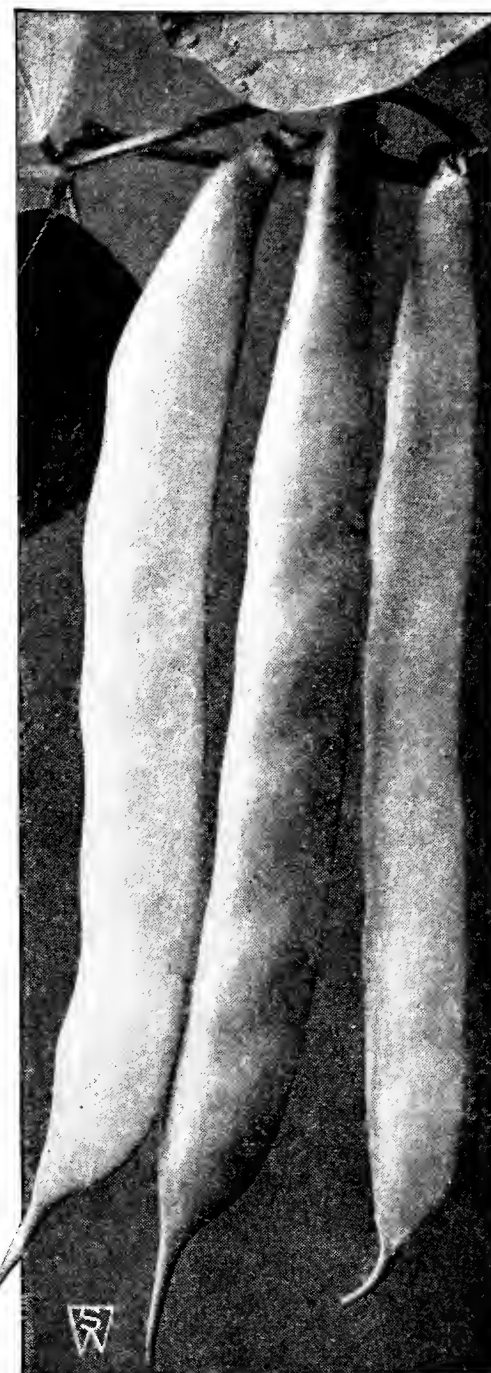
New Kidney Wax. The fleshy pods are flattened in form, from 6 to 7 inches in length, $\frac{1}{2}$ inch broad and $\frac{3}{8}$ inch thick; the color is a rich lemon-yellow. Under ordinary field culture the plants produce nearly twice as many pods as the Wardwell. The pods are remarkable for their meatiness, fine flavor, brittleness and absolute freedom from strings or tough fiber. $\frac{1}{2}$ lb. 25 cts., 1b. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

New Hodson Wax. A distinctly late variety, bearing enormous quantities of flat but fleshy pods of a creamy yellow color. The plant is vigorous, and comes into bearing in from 80 to 85 days from date of sowing the seeds. The pods of this variety often measure 7 to 8 inches in length and are remarkably free from spot or rust. $\frac{1}{2}$ lb. 20 cts., 1b. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.

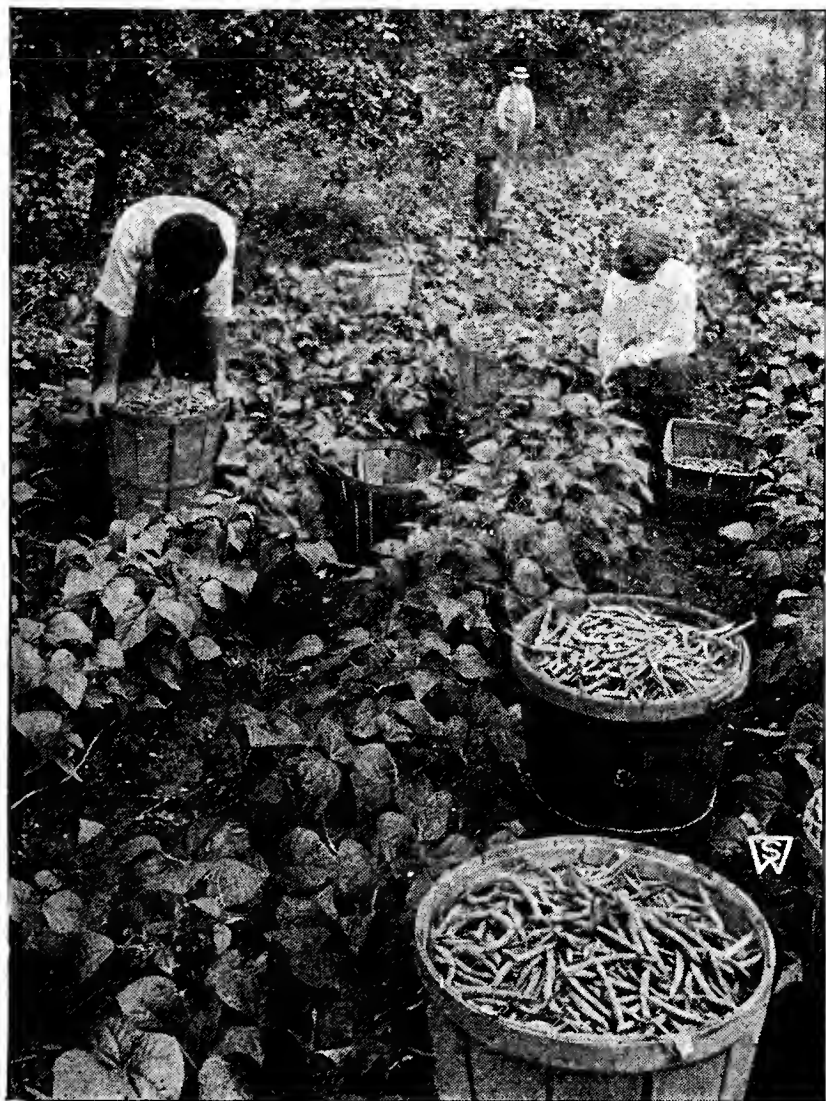
Improved Golden Wax. A very early variety with flat, golden pods of excellent table quality. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., 1b. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.

Improved Black Wax. The pods are round, and they are yielded in large quantities; early and good. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., 1b. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.

Davis White Wax. Long, straight, handsome pods. The seed is white and excellent for green shelling and for baking. $\frac{1}{2}$ lb. 25 cts., 1b. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$4.50.



Sure-Crop Stringless. A fine flat-podded Wax Bean



Hardy Wax. A new, stringless, round-podded variety remarkable for its heavy yielding properties. See text above.

BROAD BEANS

Differ from American types in that they should be planted early. Select strong land and spray continuously against aphids and blight. Not recommended for the home-garden.

English Long-Pod. The pods reach a length of 12 inches and contain seven to eight Beans.

English Windsor. The heavy pods are produced in pairs and contain three to four large Beans.

Each of the above, $\frac{1}{2}$ lb. 30 cts., 1b. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.75.

POLE SNAP BEANS

One pound plants 200 hills

Old Homestead (Green Kentucky Wonder). An improved sort of this well-known Bean. The pods are tender, stringless and of silvery green color, hanging in large clusters from the top to the bottom of the pole. One of the most prolific. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., 1b. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$3.75.

Golden Cluster Wax. The leading early Wax Pole Bean. Pods are tender and of fine flavor. Few Beans equal this as a "snap sort" while young, or as a dry, pure white Shell Bean for winter use. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., 1b. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

Lazy Wife. Green-Pod. The best late, green-podded Pole Bean. Pods medium dark green, broad, thick, very fleshy and entirely stringless. $\frac{1}{2}$ lb. 25 cts., 1b. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

English Scarlet Runner. Well-known climber with scarlet flowers. The green pods, though containing strings, are probably the best flavored of any Bean. $\frac{1}{2}$ lb. 25 cts., 1b. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

Yard-Long Asparagus. A remarkable Bean, yielding narrow rounded pods of enormous length. The quality is excellent. Pkt. 15 cts., $\frac{1}{2}$ lb. 45 cts., 1b. 85 cts., 2 lbs. \$1.60, 5 lbs. \$3.75.

NOTE. One pound is equal approximately to one pint, two pounds to about one quart.

BEETS

One ounce will sow 100 feet of drill; 5 to 6 pounds to the acre

CULTURE.—Seed should be sown the latter part of April. The ground should be spaded well and deep, placing rows about 18 inches apart, and the drills 1 inch deep. Cover the seed carefully and firm in the ground by walking over the drills. When seedlings appear about 3 inches above ground, thin out to about 4 inches between the plants so as to give ample room for the proper development of the roots. Beets are best for pulling when about 2 inches in size. Successive sowings may be made up to the middle of July.

ROUND TYPES

Eclipse. An extra-early sort which produces Beets sixty days from sowing. Of uniform, dark rosy red; top-shaped; easily pulled. Flesh dark purplish red with rose zones; remains in table condition for ten days, when it becomes tough. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 50 cts., lb. \$1.25.**

Extra-Early Egyptian. A variety which grows very quickly, producing roots of fine quality, flat and smooth. They are pulled when 2 inches in diameter. **Pkt. 10c., oz. 20c., 1/4lb. 55c., lb. \$1.50.**

Crosby's Original Egyptian. One of the most widely grown turnip-shaped Beets in cultivation today. Will produce Beets ready for pulling within two or three days after Eclipse. The smooth, dark red roots are topped with light green foliage, which is prominently speckled with dark red. The flesh is carmine, handsomely marked with white zones, very tender and of uniformly sweet quality. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 50 cts., lb. \$1.25.**

Early Wonder. A variety which has gained wide popularity among market-gardeners, and one which the amateur may also grow with every confidence. It may be sown early, and it matures very rapidly. It is so uniform in growth that the crop can be lifted practically at one time, yielding the land early and quickly for the second crop. The root is nearly globular in shape, slightly flattened. The leaves are of medium size, and the color of the flesh is deep blood-red; sweet and free from strings. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.**

Detroit Dark Red. Extended experience has shown that this Beet comes nearer the ideal than any other, and where but one variety is used this should be the first choice. The round, dark red globe roots are uniformly smooth. The flesh of the very young Beets is almost black-red, turning to dark crimson with dark purple zones as the Beets grow larger. When cooked, the Beets are of an appetizing dark red and very sweet. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.50.**

DETROIT DARK RED, Exhibition Strain. This is specially reselected for depth of color, uniformity of shape, and general refinement. It is developed particularly to meet the requirements of the exhibitor and market-gardener. **Pkt. 15 cts., oz. 30 cts., 1/4lb. 90 cts., lb. \$2.50.**

Crimson Globe. In about 70 days from planting one-fourth of the Beets in the Crimson Globe row will be ready for table use. A peculiarity of this and the next variety is that the Beets do not all come to the eatable size at the same time, some growing faster than others, thereby lengthening the period of perfection. Flesh bright red with light purple zones. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.**

Edmand's Blood Turnip. Very regular in shape, deep blood-red, and exceedingly sweet. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.**

Good for All. A fine new Beet. See page 72. **Pkt. 15 cts., oz. 30 cts., 1/4lb. 90 cts., lb. \$2.50.**

S. & W. Co.'s Winter Keeper. A distinct strain of a main-crop, globe-shaped Beet produced by many years of painstaking selection on the part of a grower who takes particular pride in striving after high ideals in seed selection. Two leading characteristics make this Beet worthy of any gardener's time and space: the uniformly excellent flavor of its flesh at all stages of development and the remarkable manner in which this quality is preserved during winter storage. Beets are almost globe-shaped, tapering somewhat toward the root. The flesh is dark red, sweet and tender at all stages of growth regardless of size. They may be stored in a cellar or pit until the spring and will cook more tender and sweet than ordinary varieties when taken from the garden. **Pkt. 15 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.**

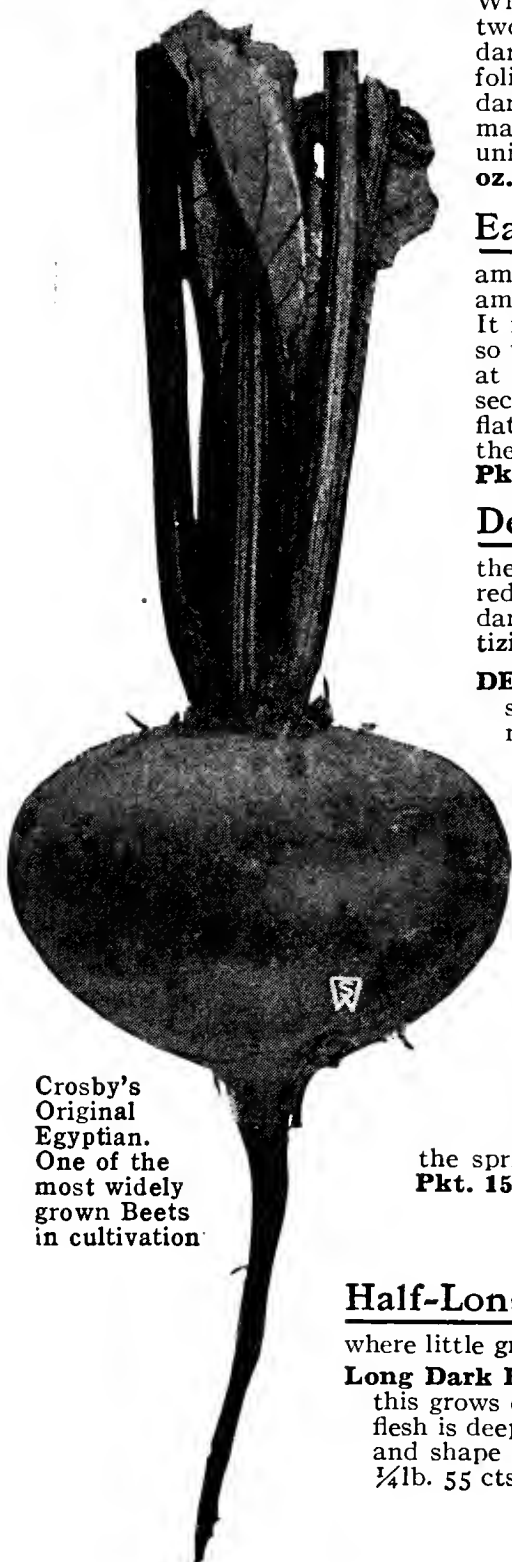
HALF-LONG AND LONG TYPES

Half-Long Blood. An entirely distinct variety. The roots are symmetrical, somewhat pear-shaped, smooth and handsome; flesh a rich, dark red, very sweet, never becoming woody. Economical where little ground is available. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.**

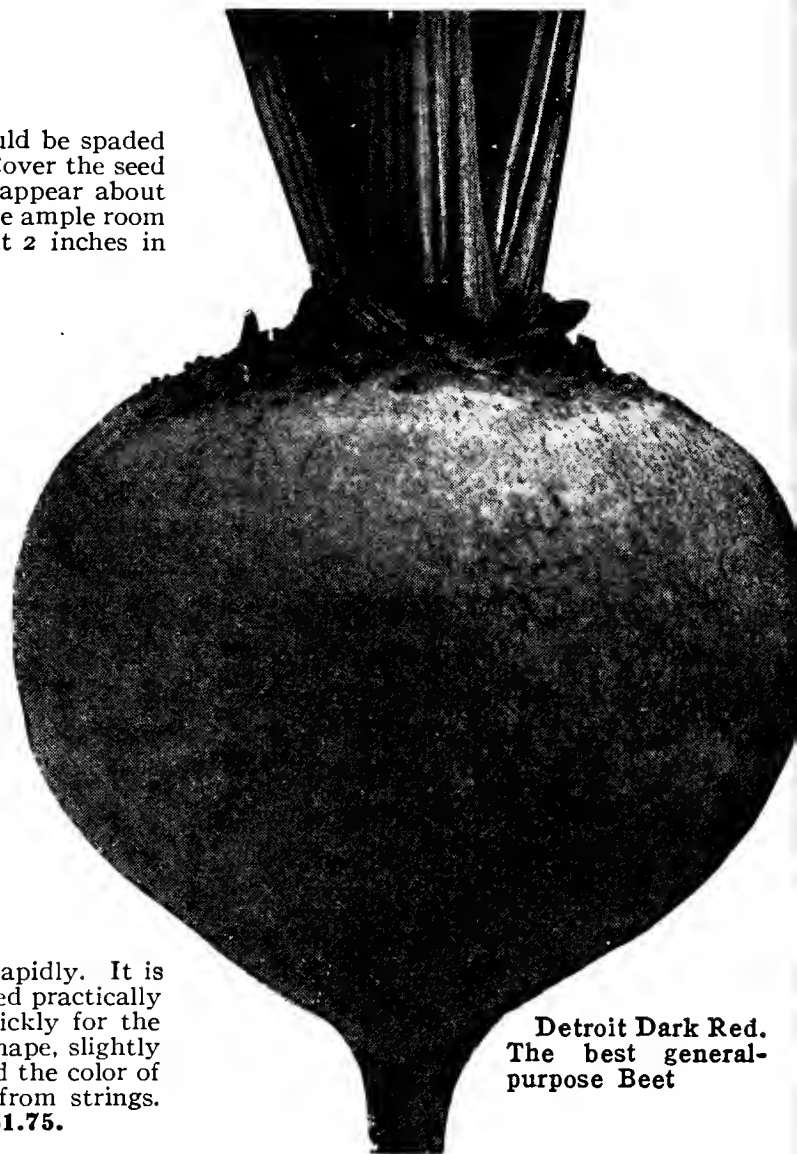
Long Dark Blood. (Out of ground.) A late variety the root of which is over a foot long. Five inches or more of this grows out of the ground, and the harvesting of the Beet is therefore not attended with much difficulty. The flesh is deep red in color, sweet, and of high quality; it keeps in fine condition through into the winter, and its size and shape obviously make it the most economical sort where garden space is limited. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.50.**

Cow Beets (Mangels) and Sugar Beets

See Root Crops on page 112



Crosby's Original Egyptian. One of the most widely grown Beets in cultivation



Detroit Dark Red. The best general-purpose Beet



S. & W. Co.'s Favorite Brussels Sprouts

BRUSSELS SPROUTS

One ounce will produce about 3,000 plants

CULTURE.—Sow in May, in shallow drills, 1 inch deep and 12 inches apart. Transplant in July. When the crown, or top sprout is beginning to head, pinch it out, to admit of the whole strength being thrown into the side shoots. Very hardy. This is a delicious vegetable and should find a place in every garden; greatly improved by first frosts.

S. & W. Co.'s Favorite. Semi-dwarf, thickly covered with excellent sprouts by the end of September. Pkt. 15 cts., $\frac{1}{4}$ oz. 35 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1, $\frac{1}{4}$ lb. \$3.

BROCCOLI

The True Italian Market Strain

A comparatively new vegetable to the American table, but one which has found favor in Europe for many years. It is preferred by many to cauliflower, and while it is somewhat akin to it, it has a more decided and distinctive flavor. It furnishes healthful and delicious boiling "greens" during summer, autumn, and early winter.

The plant branches freely. At first it produces a closely massed head, the size of a cocoanut, of green buds; this is termed the "king" sprout. When the buds are half developed and before any burst into flower, the head is cut, with the surrounding leaflets, and together they are boiled and served exactly like cauliflower, except that more of the leaves are edible. Later, similar heads appear at the ends of the branches, to be gathered and served in a like manner.

Cultivate like cabbage. Seed may be sown in February or March under glass, and in the open ground until July. Space the plants about 2 ft. each way. Light frosts improve it rather than otherwise. In warm sections south of New York, it may be grown to stand in the fields for an appreciable period of the early winter.

There is considerable variation in the strains of Broccoli, but we find that our selection is the one most in demand among growers and private gardeners.

BROCCOLI, NEW YORK MARKET. Pkt. 15 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.



Italian Broccoli

CARDOON

A vegetable that is grown somewhat like celery and served after the manner of asparagus. Sow in the open ground in May, and thin or transplant the seedlings so that they stand 2 $\frac{1}{2}$ feet, one from the other, in rows 4 feet apart. A catch-crop such as beans, lettuce or beets may be taken between the rows. At the end of the summer, and two or three weeks before using, it is necessary to blanch the Cardoons. The heads of the plants are tied together, straw is piled against them, and the surrounding soil is then heaped up against the straw. Pkt. 15 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.30, lb. \$3.50.

CHERVIL

One ounce will sow 150 feet of drill

CULTURE.—The curled Chervil is cultivated like parsley and used for garnishing and flavoring soups and salads.

Moss Curled Extra. Pkt. 15c., oz. 20c., $\frac{1}{4}$ lb. 55c., lb. \$1.50.

CRESS

Pepper Grass

Curled, or Pepper Grass. The young seedlings are used for salads. In combination with seedlings of White London Mustard, they make delicious fillings for sandwiches. Crisp, tender, and pungent in flavor. Sow in early spring and again at short intervals for succession. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

True Erfurt Water Cress. Pkt. 15 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.50, lb. \$8.

CHICORY

Witloof, or French En-

dive. A winter salad, most delicious served with French dressing and eaten like Cos lettuce. The seed should be sown in the open ground not later than June, in drills 12 to 18 inches apart, thinning out the plants so that they will not stand closer than 3 inches. The plant forms long, parsnip-shaped roots, which should be lifted in the fall, cutting off the leaves about 1 $\frac{1}{2}$ inches from the neck and shortening the roots by cutting off the bottoms to within 8 inches of the neck. The roots should then be planted in a trench 16 to 18 inches deep in a dark, warm cellar or under a greenhouse bench, and placed upright about 1 $\frac{1}{2}$ to 2 inches apart, which will allow the neck of the root to come within 9 inches of the level of the trench. The trench should be filled with a light soil, and if a quicker growth is desired, this can be accomplished by a mulch of fresh manure about 2 feet deep. It requires about one month to force the roots. Pkt. 15 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Common or Wild (Barbe de Capucin). Pkt. 15 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$4.

Large-rooted Magdeburg. Cultivated for the roots which are used as a coffee ingredient. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

For Endive, see page 90

WITLOOF ROOTS for forcing are offered on page 110.



Witloof, or French Endive. From seeds sown in spring or early summer, roots are produced, and from these roots the well-known Witloof is forced during winter.

CABBAGE

One ounce will produce
about 3,000 plants

CULTURE.—Sow early kinds in hotbeds in February and March, and in the open ground during April and May. Late varieties for fall and winter use should also be sown in May. Early sorts may be planted in rows 2 feet apart, with 20 inches between plants in the row; late kinds should stand at least 2 feet each way. To be well grown Cabbages require a deep, rich, loamy soil, but should it be too rich some late kinds may show signs of bursting. If this occurs, push the plants over to one side and so check their growth.

Fungous spores may occasionally be carried on the seed-coats, but in the majority of cases club-root and other troubles are caused by growing Cabbages in infected soil. Growers of Cabbage in quantity are advised to sterilize their seed before sowing by dusting with "Semesan" powder. Place the Cabbage seed in a jar with a small quantity of the preparation and shake vigorously for several minutes. In the field, crop rotation is recommended, and the land regularly limed.



Improved Early Jersey Wakefield Cabbage

LATE CABBAGES FOR WINTER STORAGE

Danish Drumhead. Averages larger than Ballhead, and two weeks earlier. The round heads are very solid, fine-grained and sweet-flavored. **Pkt. 15c., 1/4oz. 25 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.**

Large Late Flat Dutch. One of the most reliable sorts in cultivation for winter use; produces immense heads of the finest quality; splendid keeper. **Pkt. 10 cts., 1/2oz. 30 cts., oz. 50 cts., 1/4lb. \$1.50.**

RED CABBAGES

Mammoth Rock Red. This is the best, largest and surest heading Red Cabbage. The plant is handsome, with numerous spreading leaves, large, round, and very solid heads. **Pkt. 15 cts., 1/4oz. 25 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.**

Zenith Red. A small early sort. Very refined and uniformly dark red. **Pkt. 15 cts., 1/4oz. 25 cts., 1/2oz. 45 cts., oz. 85 cts., 1/4lb. \$2.50.**

CHINESE or "CELERY" CABBAGE

A desirable vegetable, nearer to Mustard than Cabbage, but palatable and healthful. A cool weather crop; sow early in spring or in August for late autumn cropping.

Pe-Tsai. In appearance it is suggestive of a large Cos Lettuce, but its crisp leaves and midribs have a decided Cabbage flavor. **Pkt. 10 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75.**

Wong Bok. A very compact plant, short and broad, needing less space in the garden than Pe-Tsai. **Pkt. 10 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75.**

EARLY AND MIDSEASON

S. & W. Co.'s Famous Early Conical.

An extremely early variety of conical form, quite distinct from any other on the market. An ideal sort for private gardens, producing solid heads sooner than other varieties and requiring less space than most kinds. **Pkt. 20 cts., 1/4oz. 45 cts., 1/2oz. 75 cts., oz. \$1.25, 1/4lb. \$4.**

Improved Early Jersey Wakefield. While this variety is not quite so early as our Famous Early Conical, it has been long considered one of the best early conical-type Cabbages we have. The heads are hard and solid with just a few outside leaves, which are unusually thick, enabling them to stand cold. May be carried over winter in frames. **Pkt. 10 cts., 1/2oz. 30 cts., oz. 50 cts., 1/4lb. \$1.50.**

Charleston, or Large-Type Wakefield.

Retains all the characteristics of the Improved Early Jersey Wakefield with the added advantage of greater size. **Pkt. 15 cts., 1/4oz. 25 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.**

Babyhead. Extreme earliness and small size are characteristic of this new variety. The head is less than 6 inches across, round, firm, and of splendid mild cooking quality. The outer leaves are few and small, and the stem is short. Babyhead is recommended as the first to reach the table when grown outdoors, and also for growth under glass, for which purpose it is ideal. **Pkt. 25 cts.**

Golden Acre. See page 73. **Pkt. 15 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$3.**

Copenhagen Market. The best of all early Cabbages. Stands longer without bursting than other early sorts. This new extra-early variety, ripening with Charleston Wakefield, originated in Denmark, and is as good, in its class, as the old favorite Danish Ballhead. The stem is short, the head round and solid. When ready for cutting, Copenhagen Market is the heaviest of the extra-early varieties, and if left until fully mature, frequently weighs 8 to 10 pounds. The leaves are small, compact and close to the head, so it will stand close planting. The inside is fine-grained, tender, pure white and compact. **Pkt. 15 cts., 1/4oz. 25 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.**

Succession. A splendid second-early, round-headed sort, with enormous heads of exceedingly tender quality. **Pkt. 15 cts., 1/4oz. 25 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.**

Early Summer. **Pkt. 10 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75.**

SAVOY CABBAGES

American Drumhead Savoy. Hearts solid, large, and well shaped, and in table quality resemble the better garden Cabbages. None of the late-growing varieties equal this. **Pkt. 15 cts., 1/4oz. 30 cts., 1/2oz. 55 cts., oz. \$1, 1/4lb. \$3.**

Early Cone Savoy. Has a cone-shaped head. Very refined Savoy of high quality. **Pkt. 15c., 1/4oz. 35c., 1/2oz. 65c., oz. \$1.25, 1/4lb. \$3.75.**



Chinese Cabbages: Wong Bok (left) and Pe-Tsai. (Outer leaves have been removed.)

CARROT

One ounce will sow
100 feet of drill

CULTURE.—To produce the finest crop, the land should be thoroughly manured the previous season; forked roots will result if the seed is sown in freshly manured soil. Sow the early sorts in March and April, in drills 1 inch deep and 14 inches apart; thin out to 4 inches. For main crop sow in May or beginning of June. Care should be taken, at all times, to see that soil is firm over the seeds, either by using the feet, roller, or garden drill.

BEST EARLY KINDS

S. & W. Co.'s Rubicore. Rubicore is a fine-flavored, new, early Carrot. It is a deep orange-red, and the small heart or core is almost the same color, which it retains in cooking, and it is as tender and sweet as the root itself. Rubicore is thus as "coreless" as a Carrot can be. The roots are 5½ to 6 inches long, 2 to 2½ inches at the shoulder, narrowing gradually to a blunt end. They are refined in appearance, smooth and free from eyes, and they all match up very well—uniform in size, shape, and color. The tops are medium small, but large enough and strong enough to bunch easily. It will be found an ideal market-gardener's type, as well as an excellent one for the home-garden on account of its superior qualities. **Pkt. 15 cts., oz. 45 cts., ¼lb. \$1.35, lb. \$3.75.**

S. & W. Co.'s Melting Marrow. A specially fine variety that is cylindrical in shape and of wonderful butter quality. The skin is smooth and the fine red color is carried through the entire root. This splendid Carrot is recommended to the favorable notice of the private gardener for exhibition purposes. It is, further, the best Carrot we know from the culinary standpoint. **Pkt. 15 cts., oz. 55 cts., ¼lb. \$1.50, lb. \$4.**

Selected Chantenay. A very splendid type of the half-long, stump-rooted Carrot. Averages 5½ to 6 inches in length, broad at the neck, narrowing gradually to a blunt end. The flesh is rich orange-red, free from core, tender, fine flavored, and of excellent table quality. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. \$2.**

Imperator. A superior new variety. See page 73. **Pkt. 15 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.**

Early French Forcing. The earliest variety and the one largely grown for forcing purposes. It makes a small, almost globe-shaped root of an orange-red color. **Pkt. 15 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.**

Early Half-Long Scarlet Nantes. The skin is smooth, flesh red, and without any core. It is excellent for forcing, and for quality and cannot be surpassed. **Pkt. 15 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.**

Early Scarlet Horn. Favorite for early crop but not large. A good, general-purpose, all-season variety, since, sown late in the season, the roots are firm enough for winter storage. Sometimes used for forcing. **Pkt. 10c., oz. 20c., ¼lb. 55c., lb. \$1.50.**

Oxheart or Guerande. It is intermediate between Half-Long and Horn varieties, and perfectly distinct. The shape is nearly oval and the color and quality all that can be desired. **Pkt. 10c., oz. 25c., ¼lb. 65c., lb. \$1.75.**

LATE SORTS Particularly Suitable for Winter Use

Selected Danvers. A handsome, cylindrical-shaped Carrot of good size and stump-rooted. It is of a rich, dark orange color, of excellent table quality, smooth, and has little core. It is a first-class Carrot for all soils, yields a greater weight per acre than any other variety, and is more easily harvested than the old long varieties. This selected stock we are now offering has been specially grown for market-gardeners and is sure to give satisfaction. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. \$2.**

S. & W. Co.'s Improved Long Red Surrey.

Larger, better-flavored, of a deeper orange color, and more certain to produce a crop than any type of long Carrot; flesh very sweet and tender, and never becomes hard or woody at the heart. The roots grow very regular and smooth; they are of good size, being from 6 to 8 inches in length and 2 inches in diameter at the top, tapering gradually from the shoulder to the tip of the roots. **Pkt. 15 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.**

Selected Danvers

The standard late Carrot

Perfection. An excellent orange-red late sort, with very small core and exceptionally sweet flavor. Cylindrical in shape, about 8 inches long. Perfection is a fitting companion to our Melting Marrow. **Pkt. 15 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.**

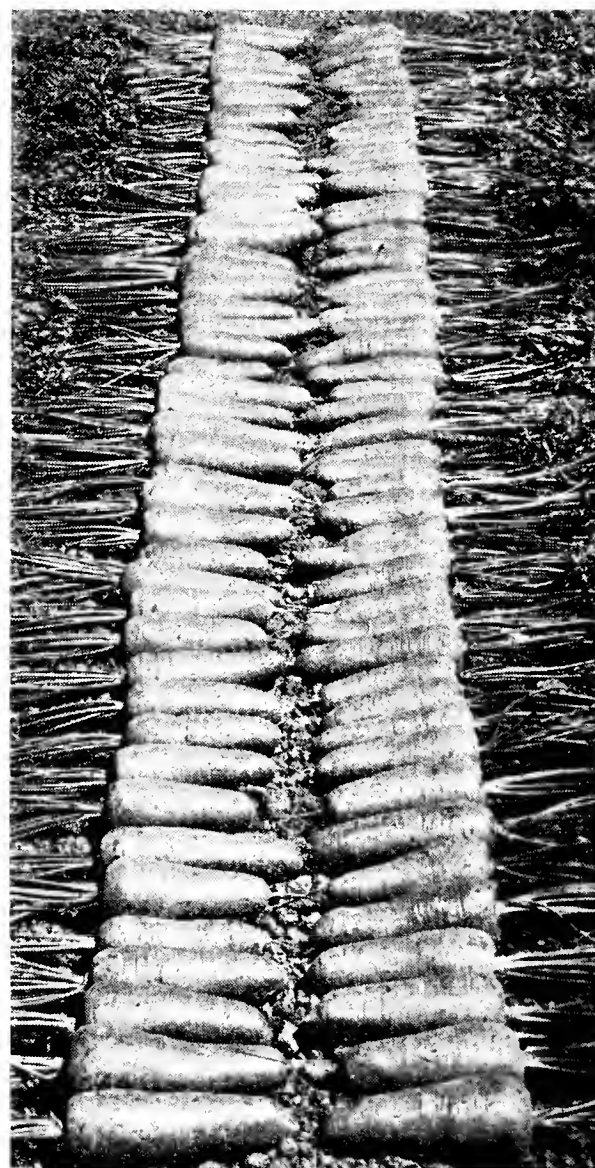
Selected Long Orange Improved. One of the most desirable for either garden or field culture; it grows to a large size, fair specimens averaging 12 inches in length and 3 inches in diameter at the top. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. \$1.50.**

S. & W. Co.'s New Red Intermediate. It is one of the most uniform in shape that we know, and where the soil is favorable, it will always grow clean and free from side roots. The core is small and very tender, and there is no indication of woody character at any stage of its growth. It is also entirely free from any coarse, rank flavor so common with many sorts. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. \$2.**

TWO CARROTS FOR PRIZE-WINNING

Exhibition Chantenay and Exhibition Danvers. Two fine strains of these standard varieties that have been specially grown and selected for exhibition purposes. Each, **pkt. 15 cts., oz. 45 cts., ¼lb. \$1.35, lb. \$3.75.**

Grow More Root Crops. There is a wealth of satisfaction in being able to go to your root-cellar or "pit" in the garden during the winter months and dig up vegetables that sell on the market at 10 to 25 cents for a bunch of five. Their liberal use is most essential to our physical welfare. And they are so easy to grow that they may play quite a part in reducing the cost of living.



S. & W. Co.'s Rubicore

As "coreless" as a Carrot can be; the roots are exceptionally uniform as to size, shape, and color

CAULIFLOWER

One ounce will produce about 3,000 plants



S. & W. Co.'s Best of All Cauliflower

CULTURE.—Sow the first week in May and prick out on a rich piece of ground; transplant in July. For wintering under glass sow in the second and last weeks in September; transplant thickly into a cold pit or frame; give plenty of air in mild weather, and cover up well when conditions are severe. Again sow in February in a hotbed and transplant in April. For Cauliflower the ground should be well prepared by trenching, incorporating at the same time a good share of rotten manure. Select new ground, if possible, as Cauliflower rarely succeeds on soil which has been cropped year after year with other kinds of vegetables. Plant in rows 20 inches apart and 2 feet between the rows. To be successful with this vegetable, rich soil and abundant moisture at all stages of development are absolutely essential. Cauliflower does not form solid heads in hot, dry climates.

The Best Early Cauliflower, S. & W.

Co.'s Best of All. The easiest grown and surest heading Cauliflower offered today. In habit the plant is very dwarf, stocky, and erect. It has very few outer leaves and, as a consequence, the young Cauliflower plants may be planted less than 2 feet apart each way. All that is necessary is to select suitable soil, when every plant will form a large, solid, perfect head of the finest table quality and of handsome appearance. **Pkt. 25 cts., 1/8oz. 90 cts., 1/4oz. \$1.65, 1/2oz. \$3, oz. \$5.**

Early Snowball. This wonderful, sure-heading variety is of characteristic dwarf habit; the outer leaves are small, hence it is particularly adapted to growing under glass during winter and spring, also for spring planting outdoors. It is, too, an excellent autumn sort. Snowball is the most popular Cauliflower grown in America today, and the S. & W. strain is used so largely by commercial growers because of the solidity and purity of its head, its large size, and its uniform reliability. **Pkt. 20 cts., 1/8oz. 70 cts., 1/4oz. \$1.25, 1/2oz. \$2, oz. \$3.50.**

Danish Dry Weather. Especially adapted to sections subject to dry seasons. The heads grow to a large size, are very solid, pure white, and of delicious flavor. It will prove valuable for growing in the southern states, where the climate is hot and long seasons of dry weather are experienced. **Pkt. 20 cts., 1/8oz. 85 cts., 1/4oz. \$1.50, 1/2oz. \$2.50, oz. \$4.50.**

Extra-Early Dwarf Erfurt. This Cauliflower is an extra-early sort which, because of its exceedingly dwarf habit, is most desirable for forcing under glass or planting in the open ground. **Pkt. 15 cts., 1/8oz. 70 cts., 1/4oz. \$1.25, 1/2oz. \$2, oz. \$3.25.**

Autumn Giant. This is a larger and later type than the above varieties. It is popular in South America and the warmer parts of this country, though many growers in this section also find that it suits their requirements. Tall and sturdy, it needs more room to develop than the early types and requires a long season in order to develop heads of characteristic size and flavor. **Pkt. 10 cts., 1/4oz. 35 cts., 1/2oz. 50 cts., oz. 85 cts.**

HOW TO IMPROVE SOIL

Broadcast General Garden Fertilizer at the rate of 1 ton per acre or 50 pounds to each 1,000 square feet, fork under and sow one of the undernoted crops. It will retain plant-food, hold moisture, and is the best adjunct to—or substitute for—animal manure. Do not allow even the smallest amount of land to remain idle, but sow a cover crop as soon as a space becomes available, allowing the cover crop to grow for a while and then plowing or digging it under.

Suitable crops to plant for turning under are:

	Quantity per acre when sown alone	Quan- tity per 100 sq. yds.	Prices, subject to market changes		
			Lb.	10 lbs.	100 lbs.
SPRING SEEDING					
*Spring Vetch.....	150 lbs.	4 lbs.	\$0 20	\$1 25	\$10 00
*Canada Field Peas... 3 bus.		3 qts.	Qt.	Pk.	Bus.
Spring Rye.....	2 bus.	2 qts.	\$0 30	\$1 50	\$4 50
			25	1 00	3 00
SUMMER SEEDING					
*Soy Beans.....	2 bus.	2 qts.	25	1 25	3 50
*Cowpeas, Whippoor- will.....	2 bus.	2 qts.	25	1 35	4 00
Japanese Buckwheat.....	2 bus.	2 qts.	20	90	2 75
EARLY FALL SEEDING					
Winter Rye.....	2 bus.	2 qts.	25	1 00	2 50
Winter Wheat.....	2 bus.	2 qts.	25	1 00	3 00
*Winter or Hairy Vetch.....	100 lbs.	3 lbs.	Lb.	10 lbs.	100 lbs.
			\$0 35	\$2 75	\$20 00

SEEDING ANY TIME

*Mixed Clovers..... 50 lbs. 1 1/2 lbs. 60 5 00 40 00
It is desirable to sow combinations of the above. When mixed together the stated quantities per acre should be reduced in proportion.

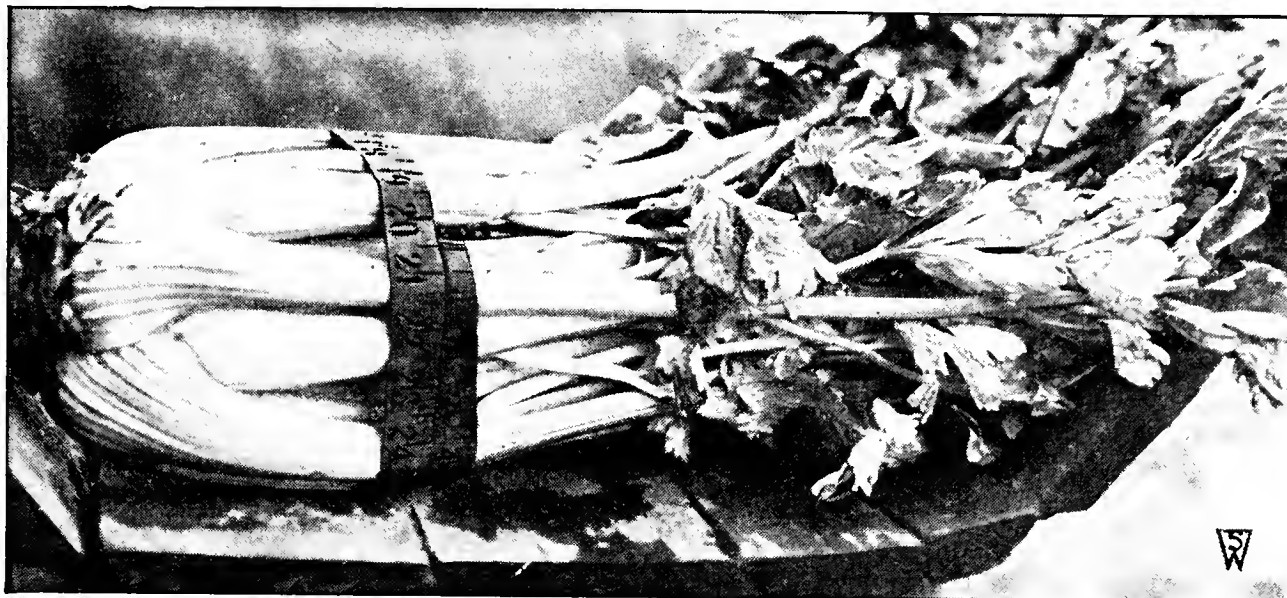
Varieties marked * are legumes, and are of additional value on account of the nitrates which are added to the soil by the colonies of bacteria found in the nodules on the roots of leguminous plants.

**Always inoculate legumes with Stimugerm
before sowing**

CELERY

One ounce will produce 3,000 plants

CULTURE.—Sow the seed in a coldframe or dry border as early as the ground can be worked, in drills 8 to 10 inches apart, covering the seed $\frac{1}{4}$ inch deep. When fairly out of the seed-leaf, they may be transplanted to another bed or thinned out 5 to 6 inches apart, and allowed to grow until wanted for transplanting out into the beds or trenches. Early in July is the proper time to set out the plants in the trenches, or as soon after early July as possible. Rows or double rows should be 3 feet apart and the plants set about 8 inches apart in the row. As the plants grow, they should be boarded or earthed up to blanch them. For keeping over the winter, they can be banked up with earth and covered with litter and boards.



A Wheelbarrow Load of Golden Plume Celery. Earliness, crispness, and general refined quality are the characteristics of Golden Plume Celery. Under high cultivation, too, the variety grows to a large size. This head of Golden Plume measures 21 inches in circumference and weighs $7\frac{1}{2}$ pounds trimmed. It was grown at Port Monmouth, N. J.

EARLY QUICK-BLANCHING VARIETIES

New Golden Plume. Fine flavor, extreme earliness, resistance to blight, and wonderful golden color characterize this variety which is the favorite of many market-gardeners. See also page 73. Pkt. 25 cts., $\frac{1}{8}$ oz. 75 cts., $\frac{1}{4}$ oz. \$1.25, $\frac{1}{2}$ oz. \$2, oz. \$3.50.

New Earligreen. The finest early green Celery that we know. It is stocky, with a remarkably full heart of delicious, nutty flavor. See also page 73. Pkt. 25c., $\frac{1}{8}$ oz. 75c., $\frac{1}{4}$ oz. \$1.25, $\frac{1}{2}$ oz. \$2, oz. \$3.50.

Paris Golden Self-Blanching. Compact, stocky, with golden green leaves. The solid, brittle heart blanches quickly; fine, nutty flavor. Grown in France, our stock is free from objectionable green plants. Pkt. 15c., $\frac{1}{4}$ oz. 45c., $\frac{1}{2}$ oz. 75c., oz. \$1.25, $\frac{1}{4}$ lb. \$3.50.

Improved White Plume. One of the most popular. It is tender and of the very best flavor. Pkt. 15c., $\frac{1}{4}$ oz. 25c., $\frac{1}{2}$ oz. 45c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

WELL-KEEPING WINTER VARIETIES

Bokay. A green Celery of great merit. Round, fleshy ribs enclose a large and beautiful heart which is crisp and short to a degree. Bokay keeps well and is an excellent sort for the commercial grower, private estate, and the amateur gardener. Pkt. 25 cts., $\frac{1}{8}$ oz. 60 cts., $\frac{1}{4}$ oz. \$1, $\frac{1}{2}$ oz. \$1.75, oz. \$3.

New Easy-Blanching. This variety is somewhat suggestive of Golden Self-Blanching, but it is green in color and a larger plant; the leaves blanch white. One of the easiest of all Celeries to grow, it is as good a keeper as any late sort, though maturing but two weeks later than Paris Golden. The flesh is crisp and brittle, the flavor particularly attractive. Pkt. 20 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2, $\frac{1}{4}$ lb. \$6.50.

Winter Queen. Medium large, light green in color. Solid, crisp; blanches well and keeps well. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

Giant Pascal. A deep green selection from the Golden Self-Blanching Celery. The stalks are very large, thick, solid, and crisp. It has a fine, nutty flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

Covent Garden Red. A splendid dark rose variety; large, brittle, and of specially nutty flavor. Pkt. 15 cts., $\frac{1}{4}$ oz. 45 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25, $\frac{1}{4}$ lb. \$3.50.

Cutting Celery. (For Soup Greens.) A loose-growing type from which stalks may be cut continuously. Merely grow in good soil kept free from weeds; do not earth or blanch. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.

Celery Seed. For flavoring soups, etc. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 75 cts.

CELERIAC, LARGE SMOOTH. A variety of celery with turnip-shaped roots; which are white-fleshed, tender, and possess the flavor of celery stalks. Pkt. 15 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$4.



New Easy-Blanching may be whitened in a shorter time than any other Celery; will blanch up, in fact, in cold storage. It keeps better than most late varieties.



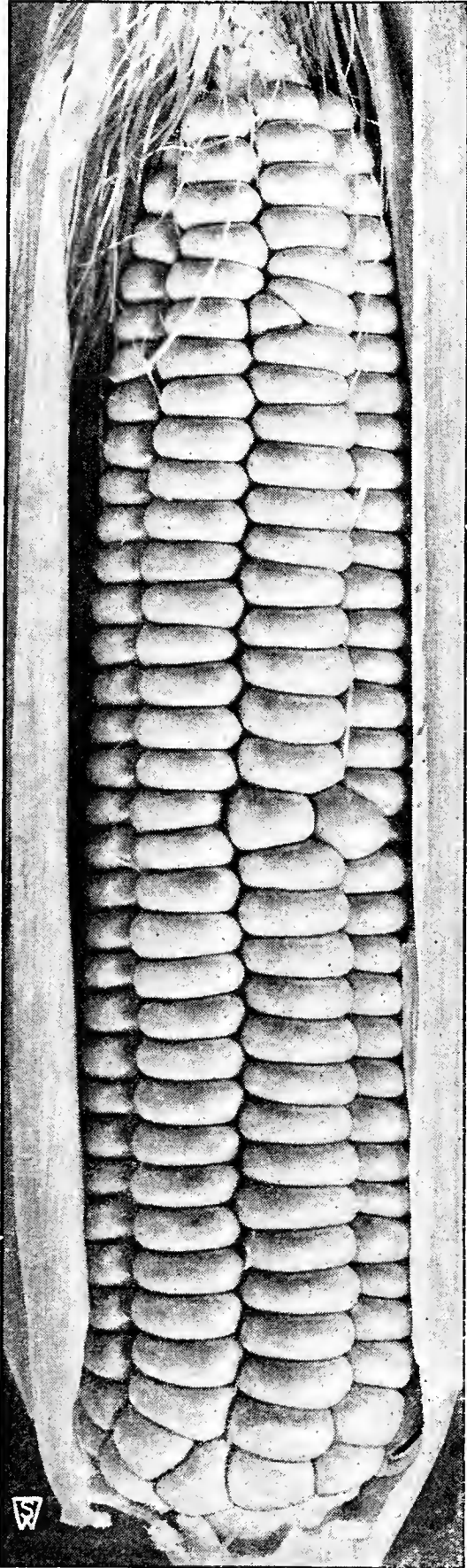
Celeriac may be served cooked or as a salad

SUGAR CORN

NOTE.—One pound of Corn is equal approximately to 1½ pints; 2 pounds to about 1½ quarts; the average weight of a bushel of Sweet Corn is 45 pounds.

One pound will plant 200 feet of drill or 200 to 300 hills

CULTURE.—Plant for succession of crop every three weeks, from April to July, in hills 3 feet apart each way, and six seeds in a hill; cover about half an inch; thin out to three plants.



Golden Bantam. The standard for quality by which others are judged

Spanish Gold. A fine new sort. See page 73. Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.75.

Semesan, Jr. Prevents and controls ear, root, and stalk-rots of Sweet Corn. Easily applied to Seed Corn at the rate of 3 ounces to the bushel of seed. 4 ozs. 40 cts., lb. \$1.50, 5 lbs. \$7, 25 lbs. \$28.75, 100 lbs. \$110.

EARLY SORTS

Early Mayflower. Is fully a week or 10 days earlier than White Cory. In size of ear, tenderness and sweetness of the kernels it is very noticeably superior to that variety. The ears are long and well filled from tip to butt with large, tender, fine-flavored, white kernels. ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$4.25.

Golden Bantam. Perhaps the sweetest Corn grown; the standard for quality by which others are judged. Plant attains a height of only 3 to 4 feet, usually bearing two or more ears to the stalk. The ears are compactly filled with kernels which when ready for the table are cream-yellow. Golden Bantam can be planted with safety earlier than other varieties; its resistance to cold also adapts it to localities having cool summer weather. A continuous supply may be maintained by successive plantings. Pkt. 10 cts., ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$4.25.

Golden Gem. A new golden variety which we offered in 1930 at 50 cts. per pkt. It is the earliest golden Corn on the market—at least 10 to 14 days earlier than Golden Bantam. The ears are a trifle larger than Golden Bantam and produced on short stalks, but of the same fine eating quality. Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.75.

New Wonder Bantam. Grows 5 to 6 feet in height, bearing, high up on the stalk, ears which measure 8 to 10 inches in length. The ears are filled with 8 rows of rich, golden yellow, sugar-sweet kernels. Wonder Bantam has all the good qualities of Golden Bantam but is more vigorous, more productive, and yields larger ears. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.75.

Golden Wedding Corn. A fine new sort, yielding two, and sometimes three, ears to each plant. It is a yellow variety, like Golden Bantam, but the ears are much larger and have 12 or more rows instead of the 8 rows of Golden Bantam. For sweetness and general refinement of flavor we consider it superior to Golden Bantam. Pkt. 15 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.50.

S. & W. Co.'s Midget Sweet Corn. A miniature Sweet Corn that is markedly suitable for growth in pots, and adapted

for culture under glass. The tiny plant grows about 30 inches, the ears are only 3 to 4 inches long, but from two to five of these petite ears are on a single stalk. The ears are of fine quality—the kernels white, meaty, and very sweet, while the cob is small. Supply very limited; we offer in packets only. Pkt. 25 cts.

Howling Mob. Is ready for use only 3 to 5 days later than the extra-early Cory when both are planted at the same time, but the ears are much larger in size, while the grains are much whiter and sweeter. As an early white variety of large size, we cannot too highly praise Howling Mob. Pkt. 10 cts., ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.75.

Metropolitan. Combines the three essentials of a good Sugar Corn, namely, earliness, productiveness, and unusually superior flavor. The 10-rowed ears are 8 to 9 inches long and they are crowded with tender, melting grains. A good early white Corn. ½lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.75, 15 lbs. \$4.75.

White-Cob Cory. For a quick sort the ears are large, and they are filled with medium-sized grains. ½lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.75, 15 lbs. \$4.75.

Crosby's Early. Large, fine ears. ½lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.75, 15 lbs. \$4.75.

Black Mexican.

Very sweet; grains black. ½ lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.75, 15 lbs. \$4.75



Earliness, productiveness, and superior flavor are combined in Metropolitan Sugar Corn

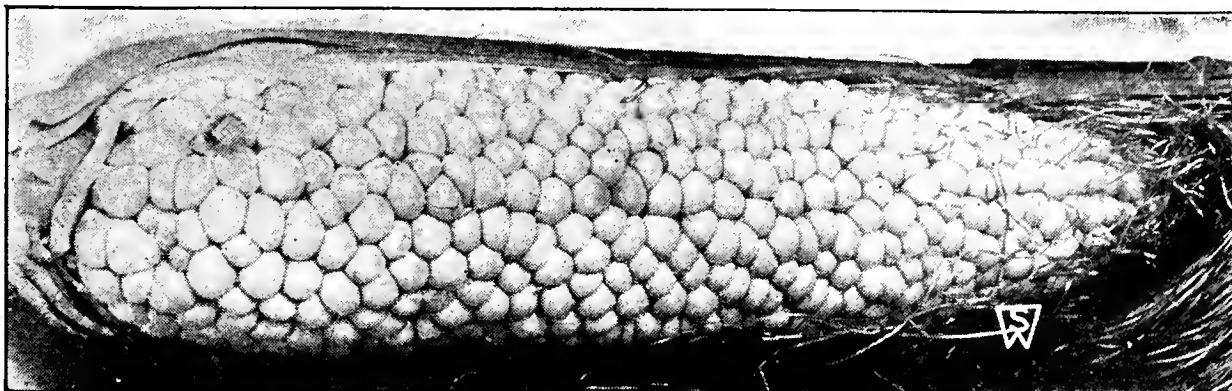
SUGAR CORN, LATE SORTS

Country Gentleman. Retains its delicate flavor and tenderness even when a little old, as the ears are encased in a heavy husk, which tends to keep the ear "in the milk" for several days longer than other varieties. The cob is unusually small and the pearly white kernels of great depth. **Pkt. 10 cts., 1/2 lb. 20c., 1 lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, 15 lbs. \$4.25.**

Stowell's Evergreen. Now recognized everywhere as a standard variety, both for home use and market, and is the general favorite. The ears are of large size, grains deep, exceptionally tender and sugary, and have the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all late sorts. **Pkt. 10 cts., 1/2 lb. 25 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.75.**

Late Mammoth. Immense ears and very sweet. **1/2 lb. 25 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.75.**

Long Island Beauty. A favorite among New York market-growers. **1/2 lb. 25 cts., 1 lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.50.**



Country Gentleman is the "All meat" Corn. Its cob or core is smaller, and its grains are deeper than those of any other Corn

Gather Corn Daily from June to October

WE OFFER FOUR SATISFACTORY SORTS IN A SPECIAL "COLLECTION"

Our conception of the most reliable and sweetest varieties is represented in these Collections. They are prepared during November and December before our real spring selling season commences. We are thus able to give you the benefit of lower operating costs, and the purchase of these Collections is thus a real economy, the prices of the Collections being sensibly under the total cost were each sort purchased separately. The object of the Collection is defeated if changes are made, and we request that you do not ask us to make alterations.

The following four varieties are included in the assortment:

GOLDEN BANTAM

HOWLING MOB

STOWELL'S EVERGREEN

COUNTRY GENTLEMAN

We suggest that sowings of each of these varieties be made every two weeks from May 10 to July 15. This will ensure a continuous supply of delicious Sweet Corn from the latter part of June through until frost.

An explanation may be in order as to the meaning of the word "late" as applied to Sweet Corn and other vegetables. It does not mean that the variety should be sown late; it means that it takes longer to grow from seed than "early" sorts. It is often the correct thing to sow "late" varieties early, and it is good gardening to sow "early" sorts late, the speed with which they mature enabling them to be used at a date when so-called "late" varieties would not have time to produce a crop.

COLLECTIONS:

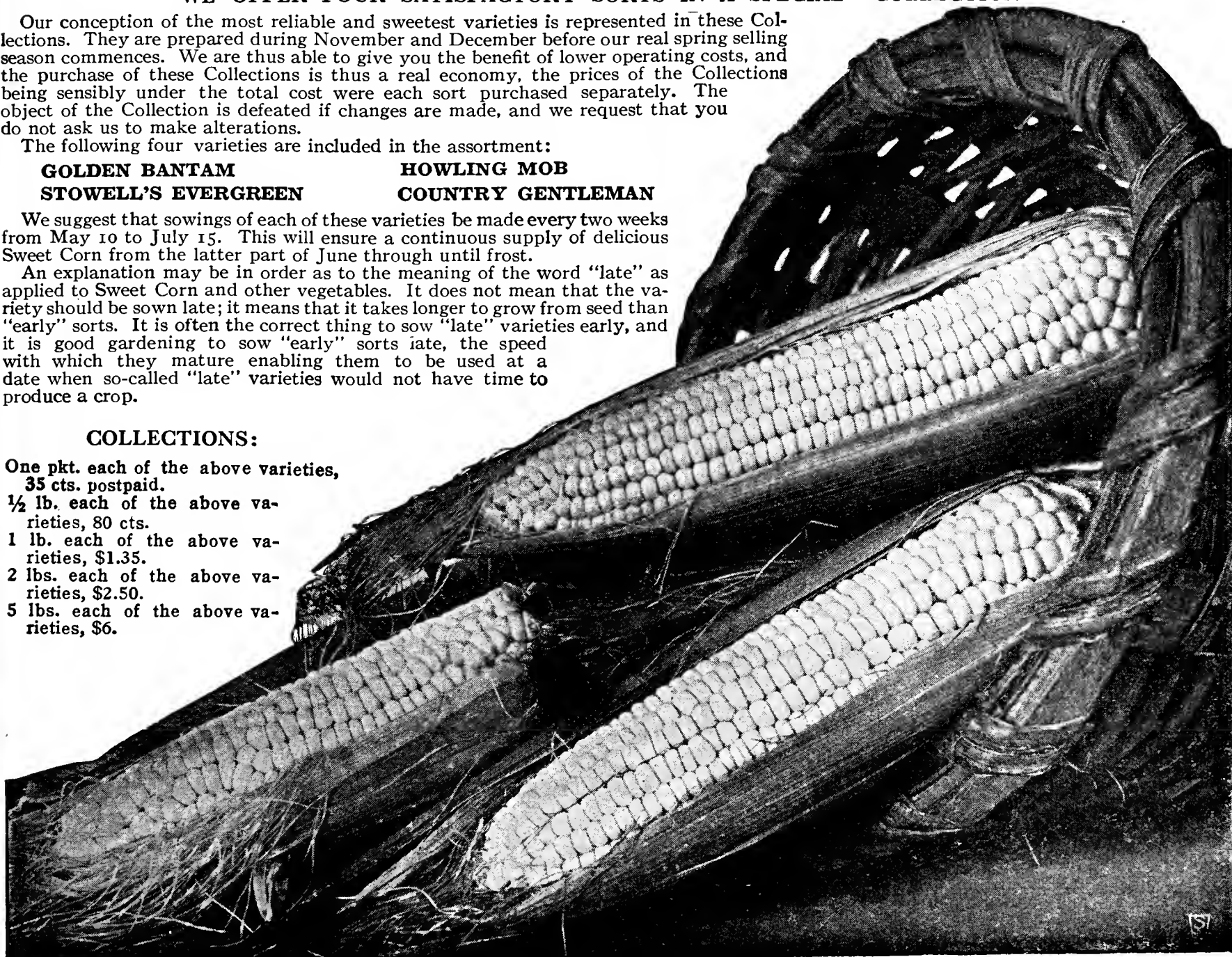
One pkt. each of the above varieties, 35 cts. postpaid.

1/2 lb. each of the above varieties, 80 cts.

1 lb. each of the above varieties, \$1.35.

2 lbs. each of the above varieties, \$2.50.

5 lbs. each of the above varieties, \$6.



Stowell's Evergreen Corn



Improved Early White Spine Cucumbers

CUCUMBER

One ounce will plant
about 50 hills

CULTURE.—The first planting should be made early in May, on partly spent hotbeds; inverted sods form an excellent medium for both planting in and carrying the young plants to their permanent location, or small paper pots can be used. Such plants are usually ready for transplanting to the open ground in from three to four weeks, and are seldom troubled with the striped bug. Transplanting, when practicable, should be done in the evening, into hills 4 feet apart each way. Thin out to about four plants to a hill when established. Seed also may be sown in hills late in May, thus giving a succession. For pickles, plant during the last two weeks of June. Bug Death, or an infusion of hellebore powder in water, will destroy the striped bug.

New Davis Perfect. In color, a dark, glossy green; shape slim and symmetrical, with an average length of 10 to 12 inches. Quality fine, as the seeds are very soft when fit for table use. Flesh tender and brittle, and of good flavor. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Improved Early White Spine. The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth and of deep, rich coloring marked with distinct white lines at the blossom-end. Will retain its color longer after pickling than most varieties, and is splendid as a table Cucumber. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.**

Cool and Crisp. An excellent pickling or slicing Cucumber, of good size, tender and crisp; very early and exceedingly prolific. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

New Klondyke. This is a hybrid sort of the White Spine type which holds its dark green color longer than most other sorts. Averages 6 to 7 inches in size; ends are quite square and it is about 2 inches thick. Its extreme earliness, combined with its prolific and hardy qualities, makes it a very desirable variety for either market or private use. An excellent sort for slicing. When small, this variety is also an excellent pickling sort. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Extra-Long Green. A well-known standard variety about 1 foot in length, of most excellent quality, and when young makes the best of pickles. When ripe it is the best of any for sweet pickles. Vines vigorous and very productive. Our strain of this valuable sort is unsurpassed by any, being carefully selected from the best fruits. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.**

Japanese Climbing. Well adapted for pickling, as well as for slicing for salads. It may be trained on a pole or fence. The Cucumbers are a foot or more in length, with a smooth, dark green skin which turns brown and is netted when ripe. **Pkt. 10 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.**

Fordhook Pickling. One of the best and most prolific varieties for producing pickles of medium size. Vines are very vigorous, yielding a large number of fruits, remaining in strong, healthy, growing condition longer than any other known variety. The skin is very tender and remains so when pickled. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Early Green Prolific. This sort can be used for slicing, but is best for pickling on account of its uniform small size. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

The Lemon. A meritorious sort described on page 74. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

CUCUMBERS FOR GROWING UNDER GLASS

S. & W. Co.'s Improved Telegraph. By special arrangement, we have secured a selected strain of this variety, and have no hesitancy in saying we consider it equal to, if not better than, all other varieties. A very dark green type which we have found from numerous tests to be the finest strain obtainable. **Pkt. (15 seeds) 25 cts., 5 pkts. \$1.**

S. & W. Co.'s Forcing White Spine

This is a particularly refined type of the well-known outdoor White Spine. It is similar in appearance, but is larger. It grows freely under glass, and its advantage over Telegraph and similar forcing types is that it bears earlier, is more prolific, and is more robust. It will thrive under conditions where Telegraph will not, and it is therefore of more simple cultivation. **Pkt. (25 seeds) 25 cts., 5 pkts. \$1.**

S. & W. Co.'s Forcing. A new type for growing under glass

EGGPLANT

One ounce will produce about 1,000 plants

CULTURE.—One of the most delicious vegetables grown, yet it is not cultivated to the extent it would be if its superior table qualities were better known. Sow during March, in a warm hot-bed in light rich soil, or fill a shallow box with a similar mixture and after sowing place in the full light of a warm window. Transplant or thin so that the young plants stand 3 inches each way or, better still, put out individually into small pots. Always keep the young plants warm and do not plant out until settled fine weather has arrived. They need to stand 2 feet apart each way when put outside where they are intended to fruit.

New York Improved Spineless. This variety is more widely grown than any other and is a favorite both for the market-garden and for family use. The fruits are large, round-oval, of a rich deep purple-black color and splendid quality. The stems and calyx are entirely free from spines. In spite of their large size, the fruits are produced continuously and freely; each strong, spreading, bushy plant may be expected to yield from six to ten splendid "eggs." We offer a markedly superior strain of this fine variety. **Pkt. 15 cts., 1/2oz. 50 cts., oz. 85 cts., 1/4lb. \$2.50.**

Long Purple. In this type the fruits are 6 to 8 inches in length and 2 to 3 inches in diameter. In color they are a handsome dark purple. The variety is early and prolific. **Pkt. 15 cts., 1/2oz. 40 cts., oz. 75 cts., 1/4lb. \$2.25.**

New York Improved Eggplant, much reduced. Fruits average 7 inches deep and 5 inches in diameter.

but it is darker in color and has a higher polish. It is also broader and thicker. **Pkt. 15 cts., 1/2oz. 50 cts., oz. 85 cts., 1/4lb. \$2.50.**

COLLARDS, GEORGIA

One ounce will produce about 3,000 plants

A cabbage-like plant with a large, loose head. In the South it is widely used as a cooked vegetable, being prepared in a manner similar to spinach. The seed may be started under glass during March and transplanted, being treated like early cabbage. For a late crop, sowings in the open ground during July or August are usual. Plants should be at least 3 feet apart each way. Collards are used as a substitute for cabbage in those sections where cabbage cannot be raised. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 50 cts., lb. \$1.50.**

CORN SALAD

One ounce will sow 150 feet of drill

CULTURE.—Seed may be sown thinly in drills 18 inches apart in early spring, and sowings may be made

later for succession as required, although in hot weather it is difficult to obtain satisfactory results, hence late summer and early fall seedings are preferred. The young plants from the latest sowings are covered with a light mulch and wintered exactly as spinach is often managed. Rich soil is necessary. Among artificial fertilizers to be recommended is S. & W. Co.'s General Garden Fertilizer. This may be dug into the ground before seeding and later hoed frequently between the rows during growth, thus mixing it thoroughly with the soil.

Large-leaved. Tested seed of high vitality. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

DANDELION

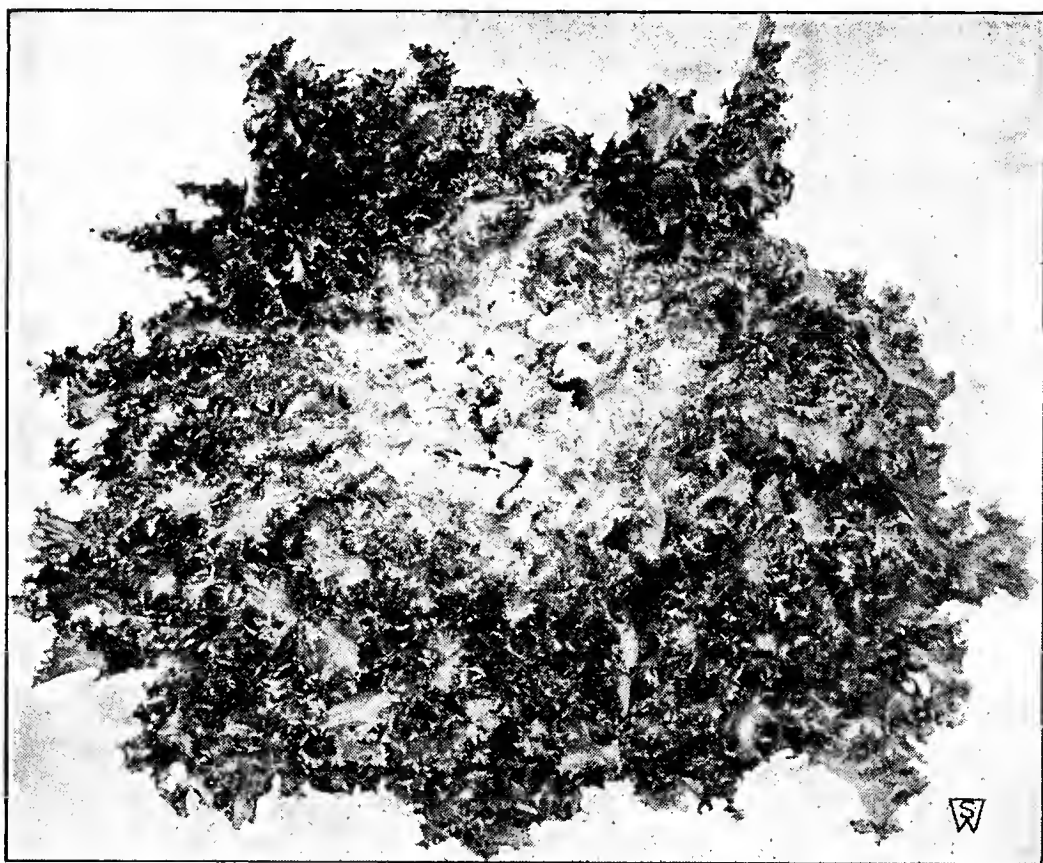
One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the year in drills 1 foot apart, covering the seed no more than 1/4 inch. Thin the plants to stand 4 inches apart. Dandelion may be blanched like endive, for salad purposes, or it may be sown later in the season, plants covered lightly with salt hay, and the following spring they will be fit for use as early greens.

Large Thick-leaved. **Pkt. 15 cts., 1/2oz. 50 cts., oz. 85 cts., 1/4lb. \$2.50.**

French Garden. **Pkt. 10 cts., 1/2oz. 35 cts., oz. 60 cts., 1/4lb. \$1.50.**

Corn Salad. Widely used in winter in place of lettuce



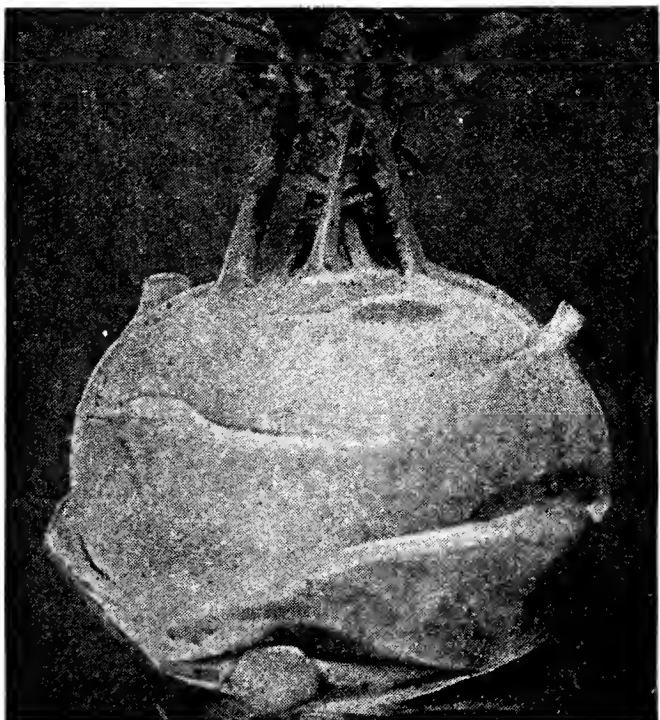
Green Curled Rose-Ribbed Endive. The most attractive of all autumn and winter salads

ENDIVE, continued

Green Curled. The hardiest and most vigorous variety. The leaves are bright green, finely cut and crinkled, giving the plant a handsome appearance. Blanches easily a creamy white. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

White Curled. A variety which blanches readily and is very tender when young. It is similar to Green Curled, but the leaves are naturally of a light golden tint, and it is not essential that they be tied up to blanch them for table use. The flavor is very good. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Broad-leaved Batavian (Escarolle). The leaves are broad and thick, more or less twisted and waved, with round ends and are of a bright deep green with a nearly white midrib. They are much larger in size, thicker and more fleshy than those of the preceding sorts. The inner leaves form a fair head which blanches a creamy white. In its natural state Escarolle forms an excellent salad with an appetizing piquancy. It may be gathered fresh from the ground well into winter, thus furnishing salad at a season of the year when it is most welcome. Escarolle is also frequently served as spinach, when its flavor and health-giving properties render it of high value. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.



Earliest Selected Kohlrabi. Useful alike for forcing and for general culture

ENDIVE

One ounce will sow 200 feet of drill

CULTURE.—One of the most attractive of all autumn and winter salads. It is commonly known in restaurants as Chicorée, and is especially refreshing when served as lettuce with plain French dressing. Sow seed from middle of June till last of August. When the plants are fully grown, tie all the outside leaves together over the heart, to blanch the inner leaves, which will take about a week. Do not tie up when the leaves are wet, as they will then decay.

Green Curled Rose-Ribbed. (Self-blanching.) Quicker to mature and more upright in growth than the ordinary type. Grown 6 inches apart, in good, rich soil, the plants quickly crowd one another to such an extent that the dense centers of the plants blanch themselves. The flavor is refined to a degree. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.



Escarolle (Broad-leaved Endive). Used widely as a salad and also like spinach

KALE

One ounce will produce about 3,000 plants

CULTURE.—Sow in May in shallow drills; when large enough, transplant singly into rows, allowing 24 inches between the plants.

Dwarf Green Curled Scotch. This withstands frost better than cabbage. In fact, it is not at its best until cold weather has set in. The leaves are curled like fine parsley. As boiled "greens," Scotch Kale is tender and of remarkably fine flavor. Pkt. 10c., oz. 30c., $\frac{1}{4}$ lb. 75c., lb. \$2.

Siberian Kale or Sprouts. Is not so densely curled, but is very hardy and yields a heavy bulk of produce. Widely known as "German greens." Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.50.

Dwarf Brown Kale. A beautiful curled variety, with spreading foliage; very hardy and of fine flavor. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

Silverheart. A new variety. See page 74. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

KOHLRABI

One ounce will sow about 200 feet of drill

CULTURE.—This is a very delicious vegetable, and is increasing in popularity rapidly; combines the good qualities of the turnip and cabbage, but excels both in nutritive and productive qualities. Cooked the same as turnips, they are very tender and palatable. Sow in spring in rows 18 inches apart, and thin away the plants to 6 inches.

Earliest Selected. A variety with few and small leaves; can be planted very closely; very useful for general culture and indispensable for forcing. Pkt. 15 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Early White Vienna. The earliest and best for either market or family use. Pkt. 10c., oz. 35 cts., $\frac{1}{4}$ lb. 95 cts., lb. \$2.75.

Early Purple Vienna. Similar to the preceding, except in color, which is of a bluish purple. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

LEEK

One ounce will sow about 100 feet of drill

CULTURE.—Sow the seed very early in a seedbed in a sheltered place, if possible. When plants are about 6 inches long transplant them to trenches 6 inches deep, with very rich soil at the bottom. Fill up the trenches as the plants grow, and later draw soil up to them. As a result you will have fine, large Leeks blanched half a foot long, which may be kept all winter if dug up with the roots on and stored in moist sand in the cellar.

S. & W. Co.'s Exhibition. This is by far one of the best, long, blanched varieties we have ever offered. Seed furnished prominent exhibitors in vegetable classes for some years past has been pronounced quite the best they have grown. **Pkt. 25 cts., 5 pkts. \$1.**

Large American Flag. A large-growing type, desirable in every way. On account of its dependability and ease of culture, is the most widely used variety for both family and market use. **Pkt. 15 cts., oz. 35 cts., 1/4 lb. \$1, lb. \$3.**

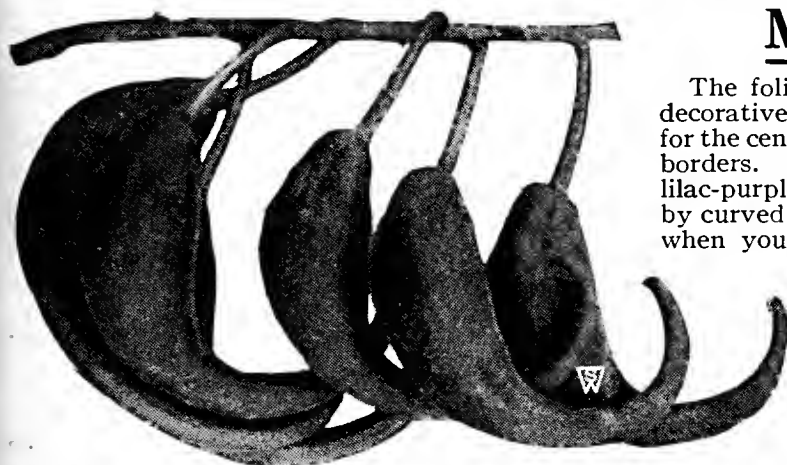
Musselburgh. (Winter.) A very hardy variety of extra-large size. The leaves are fan-shaped, of a dark green color. The edible stem is 6 to 8 inches long and 3 inches in diameter. **Pkt. 10 cts., oz. 35 cts., 1/4 lb. 90 cts., lb. \$2.50.**



Large American Flag Leek. The standard variety for general use

MARTYNIA

The foliage of this plant actually is very decorative, and it may be used to advantage for the center of flower-beds or in mixed flower borders. The thick, succulent stems bear lilac-purple flowers, and these are followed by curved seed-pods. The pods are gathered when young and are pickled sweet, in the same manner as cucumbers. Sow the seed when frost is over, and thin the plants or transplant them to stand 3 feet or more apart; or, if preferred, sowings may be made under glass early in the season and the plants afterward planted in the open ground. **Pkt. 15 cts., oz. 55 cts., 1/4 lb. \$1.50, lb. \$4.**



Martynia. These immature pods are used for pickles

MUSTARD

One ounce will sow 75 feet of drill

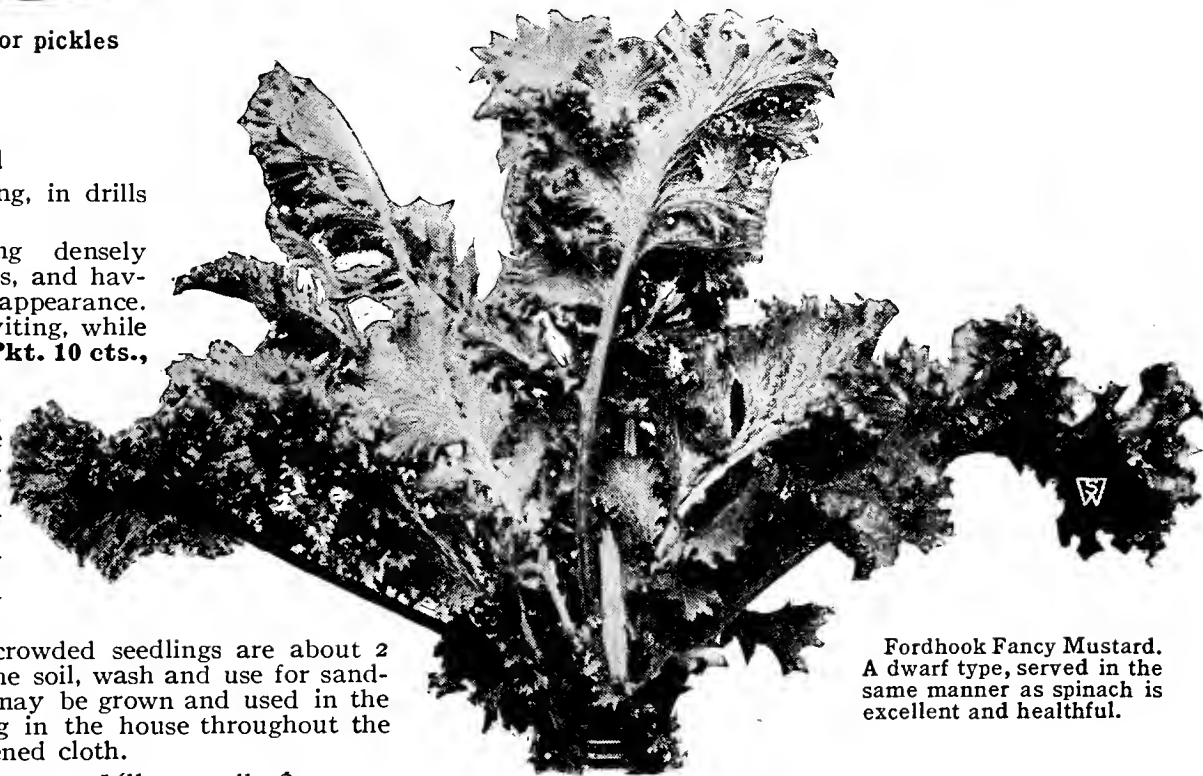
CULTURE.—Sow frequently through the spring, in drills from 8 to 12 inches apart.

Fordhook Fancy. A variety possessing densely crested and cut leaves, and having, in consequence, a handsome feathered appearance. Cooked and served as spinach, the flavor is inviting, while the plant possesses healthful tonic properties. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 50 cts., lb. \$1.50.**

Giant Southern Curled. The plant grows 3 feet tall, and the broad, succulent leaves are cut and frilled. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 45 cts., lb. \$1.25.**

THE USE OF MUSTARD. The large leaves of the above two varieties are boiled, forming a most palatable, piquant, and healthful type of "greens." White London is sown quite thickly in fine soil and not covered but pressed lightly down. In little more than a week the overcrowded seedlings are about 2 inches long; cut them with scissors close to the soil, wash and use for sandwich material. Curled Cress (see page 81), may be grown and used in the same manner. Both are suitable for growing in the house throughout the year in boxes of soil, sand, or even on moistened cloth.

WHITE LONDON MUSTARD. **Pkt. 10c., oz. 20c., 1/4 lb. 45c., lb. \$1.25.**



Fordhook Fancy Mustard. A dwarf type, served in the same manner as spinach is excellent and healthful.

Four Aids to Successful Gardening WHICH SHOULD BE INCLUDED WITH EVERY ORDER

Sawco General Garden Fertilizer

Use at the rate of 10 pounds for a space 20 by 20 feet, or 1,000 pounds per acre. May also be dusted between the rows during growth.

5 lbs.....\$0 50	25 lbs.....\$1 75	500 lbs.....\$20 00
10 lbs.....90	100 lbs.....4 50	Ton.....62 50

Transportation paid within 100 miles of New York City

Semesan We send by express; cannot be mailed

Place a little Semesan with seeds in a jar and shake vigorously; bacteria and fungus spores adhering to the seeds will be killed.

2 ozs.....\$0 50	Lb.....\$2 50	5 lbs.....\$11 75
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Mag-o-Tite We send by express; cannot be mailed

Protects your crops against the ravages of the root-maggot, earth-worm, and other pests. Mag-o-Tite is a powder which is mixed with the soil at seeding- and planting-time, and later sprinkled alongside your plants when growing.

2-lb. pkg.....\$0 35	4-lb. pkg.....\$0 60	8-lb. pkg.....\$1 00
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Stimugerm

Supplies the nitrogen-fixing bacteria necessary for the successful growth of Beans, Peas, and Sweet Peas. Garden size, special composite culture, 25 cts., postpaid 35 cts.

LETTUCE

One ounce will sow
150 feet of drill

Because the number of good sorts of Lettuce is so great as to prove bewildering to the majority of gardeners, we have selected for them the following, which, in our many years of experience, have never disappointed where the cultural directions were followed.

CULTURE.—About the middle of March sow either Big Boston, May King, or Wayahead in the hotbed. When seedlings are about 2 inches tall, transplant them 4 inches apart each way in a coldframe. By May 1, after properly hardening them, set out in the garden, 1 foot apart in the row, with a 2-foot path between the rows. These plants should give you firmly folded, well-developed heads by Decoration Day. As soon as the ground can be worked outdoors, plant seeds of any of the early sorts in rows, $\frac{1}{4}$ inch deep. As soon as seedlings are 3 to 4 inches tall, thin them to stand 4 inches apart in the row. Later on remove every other one and do this again until the plants finally stand 16 inches apart in the row. Then hoe *between* the plants as well, in order to secure good heads. After the middle of May, do not sow seeds of early kinds, but select sorts like All Seasons and Iceberg instead. Make repeated sowings of short rows to have a crisp product available constantly. In August sow Thanksgiving Day Lettuce.

EARLY LOOSE-LEAVED LETTUCES

Early Curled Simpson. A splendid curly-leaved sort. Seed sown in the coldframe about the middle of March and transplanted about the middle of April will supply the table from May until the middle of June. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

Black-seeded Simpson (Loose Head). A popular curly-leaved sort, similar to Curled Simpson, except that it is larger in size. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

Grand Rapids. There is no better forcing variety among the curly-leaved sorts than the Grand Rapids, and it is quite as good for outdoor culture as many others. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**



Grand Rapids Lettuce

Large, beautiful leaves; crisp and tender. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

TEN FINE HEADING LETTUCES

A suggestion in one of our prominent garden periodicals has given Ten Fine Lettuces for the amateur gardener to grow, whose garden space is small, and where crisp Lettuce is desired from April to December.

Golden Queen. A small variety of compact habit, forming yellowish green heads. Seed may be sown about the middle of April outdoors, giving Lettuce in about six weeks, just a few days before May King and about a day or so after Wayahead. **Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.**

Wayahead. Large and fine. Very similar to May King described below. If seed is sown about the same time as Golden Queen, it will likely mature a few days sooner, but usually makes a looser head. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

May King. Unquestionably one of the best all-round, early, outdoor Lettuces. Does remarkably well in cold or wet weather, forming solid heads of bright green, the edges of the center leaves tinged reddish brown; the heart is clear yellow and of ideal flavor. If sown the same time as Wayahead, May King will be ready about four to five days later. This variety is sown in August for fall use. **Pkt. 10c., oz. 30c., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

California Cream Butter. The largest and latest of the early varieties of this type named in this list. If sown the same time outdoors as the three preceding, will mature about ten days to two weeks later. **Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.**

Big Boston. A splendid head Lettuce, perhaps the most generally and favorably known of the ten mentioned here. Forced in frames to great extent in the spring and is also planted in August for late crop. Does not do well for midsummer use, but as a fall or early spring Lettuce is one of the best. Large heads; center crisp and of fine flavor. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$1.75.**

Black-seeded Big Boston. The plants are of a uniformly darker shade of green, grow more compactly, and stand several days longer than other strains of Big Boston, before running to seed. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

All-Seasons. This is a splendid black-seeded sort; a good heat-resister. If sown early in May will produce fine, buttery Lettuce from the latter part of June to the latter part of July. **Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.**

Iceberg (California Simpson). A splendid, crisp-head sort: Few Lettuces resist the heat better. Has strong center ribs, which bend toward the heart of the plant, keeping it thoroughly blanched. Repeated sowing from early May, of this sort and New York or Wonderful, at intervals of three weeks, should supply the table well up to September 1. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

Thanksgiving Day. The best Lettuce for sowing in summer to produce a late crop. Outer leaves are brown and fringed, but the firm, solid head is bright gold-green and of fine flavor. **Pkt. 15 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$4.**

New York or Wonderful. An enormous sort of wonderful quality. The outer leaves are dark green, with a large, crisp, very solid white heart. Frequently shipped as Iceberg, but the true Iceberg (see above) is lighter in color, slightly smaller and yellowish green. **Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$3.25.**



May King Lettuce



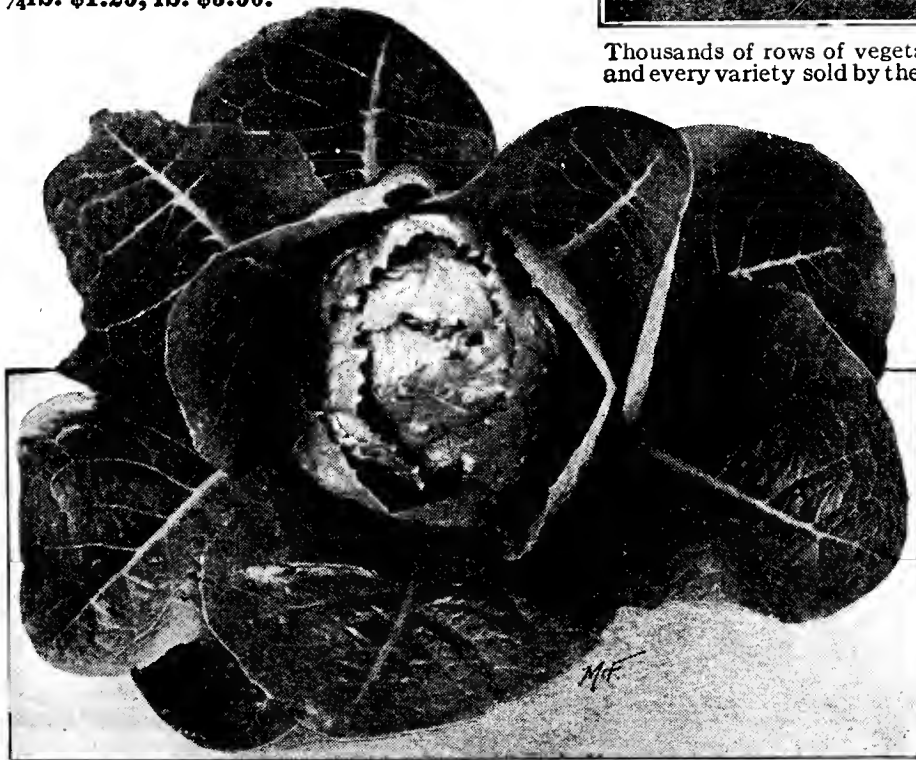
Big Boston. Everybody's Favorite for outdoor use and forcing

Unrivalled Summer. Forms uniformly large heads similar to Big Boston but lighter in color. Ready about a week earlier than Big Boston when sown at same time. May be sown throughout the season. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.

A MINIATURE LETTUCE

S. & W. Co.'s Tom Thumb.

This miniature sort is just what the gardener wants for greenhouse or frame culture. The small, firm, cabbage-shaped heads are of excellent buttery quality, while the leaves are dark green and very crumpled. The owner of the small garden likes the tiny plants, which occupy but little space. Outdoors it is suitable for spring and fall use. The plant is practically all head. Pkt. 15 cts., oz. 45 cts., ¼lb. \$1.25, lb. \$3.50.



Paris White Cos Lettuce, or Romaine. Crisp, tender, and sweet

OTHER GOOD HEAD LETTUCES

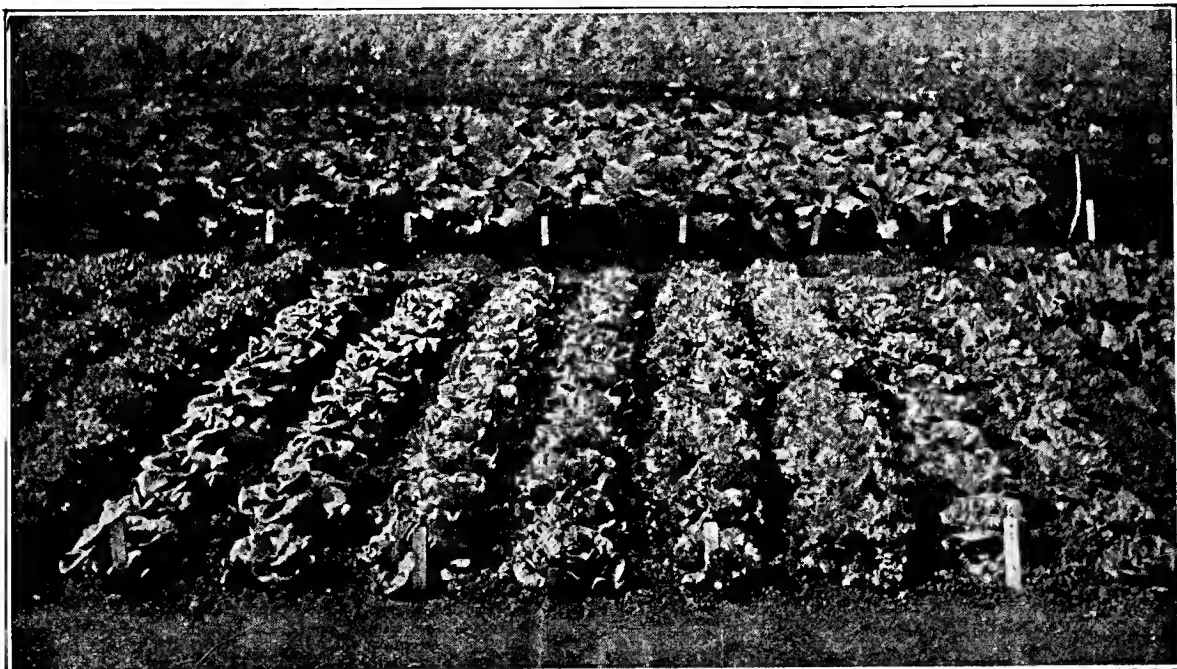
Mammoth Black-Seeded Butter. A very large type. The heart is of fine flavor and melting. Mammoth Black-seeded Butter is advised for late spring and summer planting, as it is a good hot-weather variety, being one of the last to "bolt" to seed. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. \$2.

Hanson Improved. The round head is large and well-formed, and is so solid it blanches almost white. The outer leaves are curled and shining, giving the Lettuce a very handsome appearance. This variety is recommended because of its absolute reliability. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.

Mignonette. A densely heading curled Lettuce of medium size and one that is very solid, compact, and hard. It is medium brown in color, with a dark greenish tinge. Mignonette is very popular in many sections on account of its high quality and its wonderful resistance to heat, it being one of the last varieties to run to seed. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.

Black-seeded Tennisball. Forms a close solid hard head of a buttery texture: not over large in size and of a medium green color. The leaves are crumpled. Tennisball enjoys wide popularity, chiefly because it is a sure header during spring, summer and fall. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. \$2.

Salamander Perfected. An excellent summer variety. Grows to large size, with tightly folded leaves covering the center, which blanches a light golden. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. \$2.



Thousands of rows of vegetables and flowers are grown to maturity on the S. & W. Co.'s Trial-Grounds, and every variety sold by the Company is represented. Our view shows a portion of the Lettuce Trials.

COS or ROMAINE LETTUCE

Upright, distinct, and considered by many to be the most refined type of Lettuce. When about a week short of maturity, it is usual to draw the outer leaves together and tie them, blanching the inner heart and greatly enhancing its noted crispness and fine flavor. Experts have been developing plants which naturally tend toward a close, compact habit, and the necessity for tying is not so great with the following varieties.

S. & W. Co.'s Dark Green Cos. A new mammoth sort, self-closing, resistant to cold, and slow to bolt during hot weather. The full, white, crisp heart is of the finest quality. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.40, lb. \$4.

S. & W. Co.'s Giant White Cos. Although this fine Cos Lettuce attains a large size, the immense heart is crisp, tender and excellent; quite self-folding. Pkt. 25 cts., ½oz. 60 cts., oz. \$1.

Paris White Cos or Romaine. A splendid sort for summer use, leaves quite erect. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.

Trianon Self-closing Cos. A large, strictly self-folding type with long, narrow oval leaves. The head is tender and crisp. Trianon is earlier than the above varieties, making it commercially valuable. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.40, lb. \$4.

MUSKMELON

One ounce will sow about 80 hills

CULTURE.—Sow the seed in April under hand glasses or Hotkaps, and in the open air in May in hills 6 feet apart each way. Plant in each hill from 8 to 10 seeds, covering half an inch deep. When the plants have produced their rough leaves, thin out to three plants. The hills should be prepared by trenching in rotten manure and sand. As soon as the plants make their appearance above ground, dust them with soot or Bug Death, to prevent the ravages of the bug.

GREEN-FLESHED KINDS

Rocky Ford. The fruits weigh from $1\frac{1}{4}$ to $1\frac{1}{2}$ pounds each. They are quite thick meated, with very thin rinds; skin light green, regularly ribbed and heavily netted, turning to a golden yellow as the melon ripens. Flesh light green in color, firm but melting, and of uniformly fine flavor. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$1.75.**

"10/25" Salmon Tint. The Rocky Ford Muskmelon has been improved under the direction of Professor Blinn of the Colorado Experiment Station, and "10/25" is the best yet. The fruit is heavily and evenly netted, very uniform in size, rust-resisting, and early; the flesh is a rich gold in the center, shading out to emerald-green near the rind. The flavor is highly aromatic and pleasing to a degree. **Pkt. 15 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.**

Honeydew. This variety, with its clear light yellow skin, is becoming quite familiar in the best markets. No other melon is quite so sweet as this, and it is not surprising that it should become so popular. The flesh is green, very thick, and, unlike some melons, it ripens uniformly to the rind. **Pkt. 15c., oz. 35c., $\frac{1}{4}$ lb. \$1, lb. \$3.**

Extra-Early Hackensack. Large, round and of fine quality. A standard variety. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$1.75.**

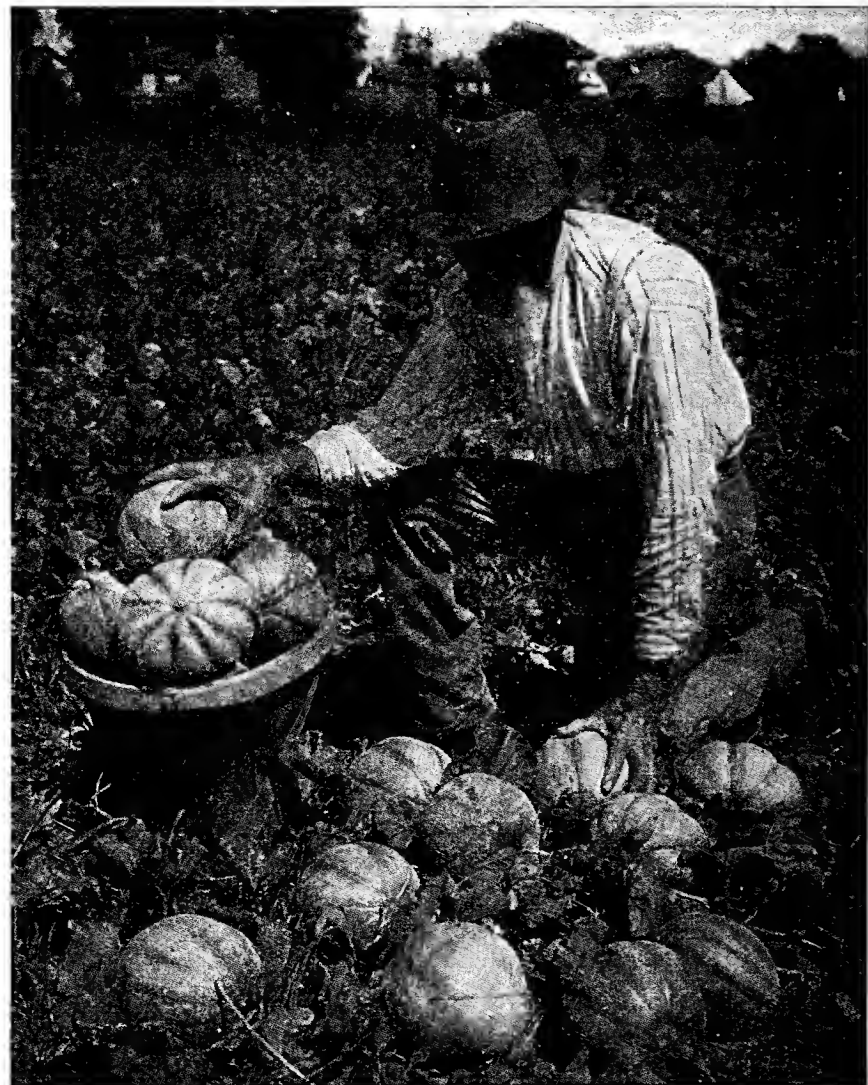
GOLDEN or ORANGE-FLESHED SORTS

Bender's Surprise. An almost round melon of medium size, with very thick, sweet, pink flesh of luscious, melting quality. The dark green, heavily netted skin ripens to an attractive gold. A sure cropper and a splendid all-round variety. **Pkt. 15 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.**

Banana. Narrow, curved, and as much as 30 inches in length, this old-time variety is well named. The flesh is a deep salmon, sweet, and of good quality. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**



Bender's Surprise Melon. The pink flesh is sweet and very thick



S. & W. Co.'s Selected Stock, Rocky Ford. The most popular green-fleshed Muskmelon

Selected Emerald Gem. The skin is a rich deep green, and smooth; flesh salmon color and of delicious flavor. A very early and prolific variety and one that is very extensively grown for family use. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

Hearts of Gold or Improved Hoodoo. A new orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Fruits uniformly of medium size. Rind thin yet very firm. Flesh very thick; firm, of fine texture and delicious flavor. **Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.**

Tip-Top. The most productive melon known; having a sweet, juicy, fine flavor; solid flesh (but not hard) and edible to the outside coating. The fruit is of large size, nearly round, evenly ribbed and moderately netted. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

Paul Rose. This new red-fleshed melon is sweet and highly flavored, and in it are combined all the good qualities of the Netted Gem and Osage, the varieties from which it originated. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.**

Golden Delicious. A fine variety. See page 74. **Pkt. 15 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.**

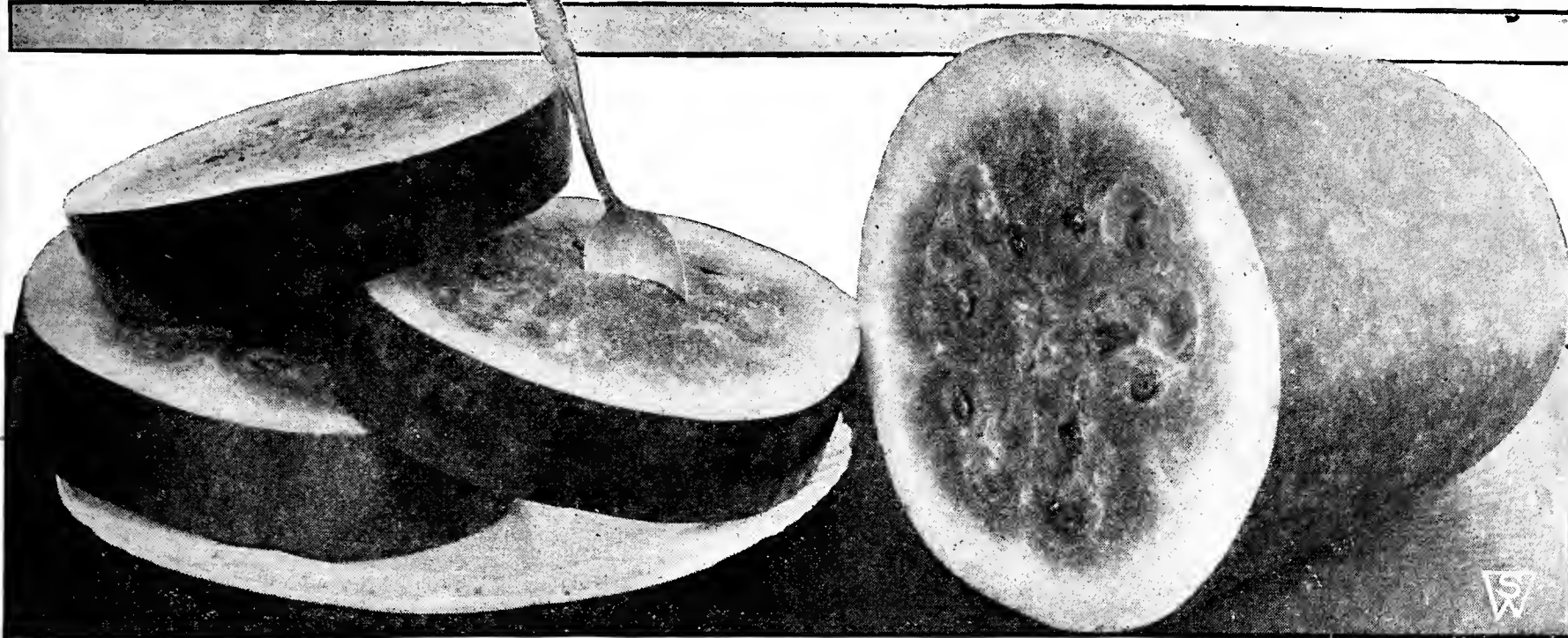
Cassaba Muskmelon

To the lover of Muskmelons, it is a matter of disappointment that the varieties ordinarily grown will not keep for any length of time after ripening. Cassabas, however, *will keep*, and they are true winter melons. Cultivate similar to Muskmelons. **Pkt. 15 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.25.**

FORCING MELONS

King George. A fine large melon of European origin. Handsomely netted, it is a splendid sort for growing under glass. The flesh is red, and very thick, with a small seed cavity. **Pkt. 50 cts.**

Royal Jubilee. A splendid, oval, green-fleshed melon, raised at the Royal Gardens, Windsor. Skin almost white, handsomely netted. The flesh is tender and of the most exquisite flavor. **Pkt. 50 cts.**



Kleckley Sweets. The sweetest of all Watermelons

WATERMELON

One ounce will plant
about 50 hills

CULTURE.—Treat the same as muskmelon, except that the hills should be 8 to 10 feet apart, according to variety.

Cole's Early. A most delicious and productive variety for the family garden, succeeding in northern states, where melons were never matured before. The flesh is of a beautiful bright red color, crisp, and extremely delicate in texture—that granulated, cool, sparkling appearance that is so captivating to the eye; in flavor it is lusciously sweet and refreshing, no pithiness or stringiness. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Kleckley Sweets. The sweetest of all the Watermelons. Fine-flavored and grained, tender meat. Fruits are large size; rind very thin and green, very brittle; flesh scarlet and firm; and a variety everyone should grow. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.**

Stone Mountain. Wonderful for the private garden. Very large, dark green, nearly round. Flesh sweet, rich scarlet with few seeds. An already popular introduction. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Early Fordhook. The quickest-maturing, large-fruited Watermelon grown, and therefore suitable for the North. Fruits are short and "stubby," though large. The flesh is bright scarlet, crisp, and of splendid quality. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.**

Tom Watson. A large, long melon with a tough rind. Prolific; flesh rich red, sweet, and tender. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.50.**

Citron. Used for preserves. **Pkt. 10c., oz. 25c., 1/4lb. 65c., lb. \$1.75.**

MUSHROOMS

CULTURE.—You need (1) a shed or cellar which can be kept damp and at a temperature around 60 degrees; (2) fresh horse-manure from healthy animals, free of shavings, and with little straw; (3) some good garden soil; (4) some hay or straw; (5) high-grade Pure Culture Spawn or Bottle Spawn; (6) a hotbed thermometer. Turn the manure for several days, keeping it slightly moist; make firm beds with it 1 foot thick, and let it steam. Try the temperature of the manure: it will go over 100° and then fall; at 85° plant spawn just under the surface and then cover the beds with hay. A mould will be noticed on the manure after a week; remove the hay and spread one inch of soil in its place. Keep the bed slightly moist, using warm water, and occasionally sprinkle the floors and walls. You should begin gathering Mushrooms in six weeks.

Pieces of Mushroom Spawn may be plugged into the lawn. If the land is rich, a good crop of Mushrooms may be expected in the autumn.

Brick Spawn, American Pure Culture

Ten bricks will spawn 100 square feet (10 x 10 ft.)

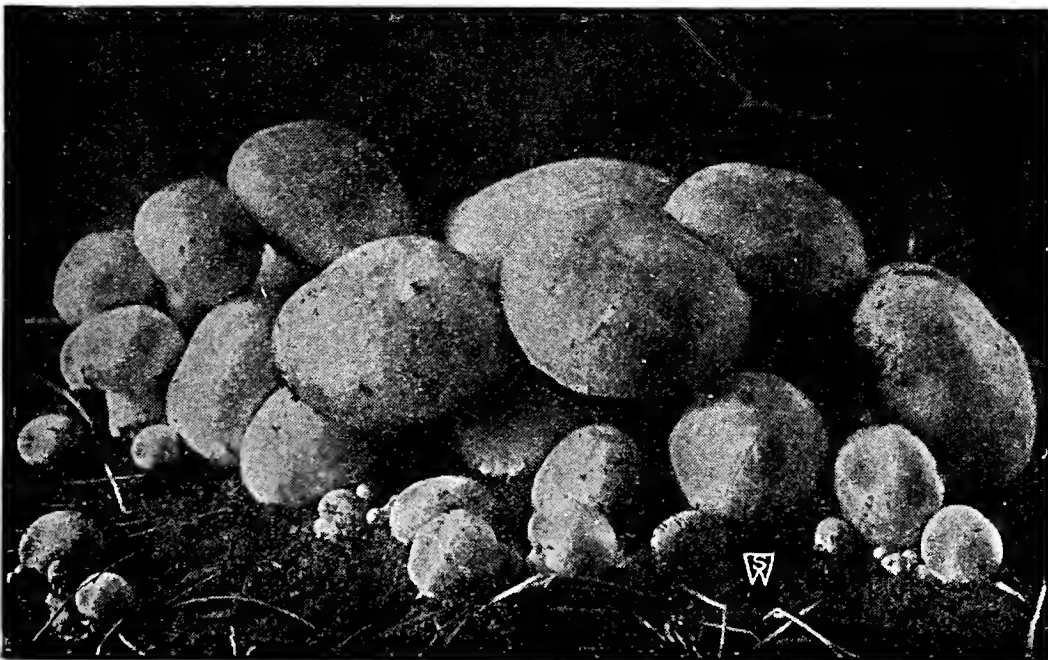
Spores have been selected from specimen Mushrooms and transferred to bricks of compressed manure and loam. Break the brick into pieces the size of a walnut and plant 1 foot apart each way.

Per Brick (about 1 1/2 lbs.), 35c. Per 10 Bricks, \$3.25.
Per 25 Bricks, \$7. Per 100 Bricks, \$25.

Bottle Spawn, A New Process

One quart will spawn 35 square feet

In this new method the spores are propagated in sterile glass bottles, the Spawn removed, dried, and packed in cartons. Excluded from the Spawn are the spores of other fungous growths, many of which are highly poisonous; no insect eggs, flies, or weed seeds. Pieces the size of a nut are planted in the usual way. Produces white mushrooms. **Qt. \$1.25, 6 qts. \$6.50, 12 qts. \$12.**



Bed of S. & W. Co.'s Pure Culture Mushrooms

ONIONS

One ounce for 100 feet of drill; 5 to 6 pounds per acre

CULTURE.—Sow in rich, sandy soil, in drills 1 foot apart, as early as possible in the spring, cover with fine soil and firm well, either with roller or back of spade. When plants are strong enough, thin out to 3 or 4 inches. The largest Onions are produced by sowing the seed in a hotbed early in January or February and transplanting seedlings to the open ground 6 inches apart.

MILD, WHITE VARIETIES

S. & W. Co.'s Southport White Globe. Produces handsome and uniformly globe-shaped bulbs. The flesh is firm, fine-grained and of mild flavor. To produce the beautifully white Onions, so much sought in every market, one must, first of all, have good seed. Second, grow them well on rich land. Third, exercise great care in harvesting and curing the crop. In Southport, they "cord" up the Onions in long rows, the bulbs on the inside, and cover with boards so that the bulbs in the open air are well protected from rain or dew, which would be sure to discolor them. **Pkt. 10 cts., 1/2oz. 25 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$3.50.**

White Portugal, or Silverskin. A mild-flavored variety, used extensively for pickles. The Onions are tender and altogether fine. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1.10, lb. \$3.25.**

White Pickling. When matured, the tops die down, leaving beautiful and perfect little bulbs. The color is pure white, flavor mild and delicate, perfectly adapted for pickling and table use. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1.10, lb. \$3.25.**

White Bunching. For spring Onions, pulling Onions or "Scallions." Use them when the thickness of a lead pencil, and they will be found deliciously mild and sweet—healthful, too. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.**



White Portugal Onions

LEADING YELLOW KINDS

S. & W. Co.'s Southport Yellow Globe. The enormous quantities of this Onion annually sent to market prove its popularity, and it is more largely grown than any other sort. We can confidently claim superiority for our strain of seed; it produces large and uniformly spherical bulbs with very small necks. The largest diameter is below the center of the bulb. The color is a rich orange-yellow. Keeps splendidly. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.**

Ideal Yellow Globe. An early Onion of the Southport type, dark yellow in color, of medium size, producing bulbs of high quality. A good keeper. **Pkt. 10 cts., 1/2oz. 25 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$3.50.**

Yellow Globe Danvers. Of more globular shape than the Southport; a splendid keeper, producing well-rounded bulbs about 2 1/2 inches in diameter; skin light golden yellow; flesh white, crisp, and mild in flavor. One of the best-known Onions, and recommended strongly for the general crop. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.**

EXTRA LARGE-GROWING KINDS

S. & W. Co.'s Selected Ailsa Craig. This Onion continues to be one of the largest. It is a very handsome, oval-shaped variety with pale straw-colored skin. Two of these Onions that weighed 8 pounds have been exhibited in England. For exhibition it is unexcelled. To attain its largest size it should be sown in the greenhouse in January and transplanted to the open in April. For a large Onion it is a splendid keeper, and for those who like an Onion raw we recommend it highly on account of its mild flavor. **Pkt. 15 cts., 1/2oz. 40 cts., oz. 65 cts., 1/4lb. \$1.75, lb. \$5.**

Ailsa Craig. Originator's stock grown in England. **Pkt. 50 cts.**

Prizetaker. Uniform in shape; of immense size, measuring from 12 to 16 inches in circumference, while under special cultivation specimen bulbs have been raised to weigh from 2 to 3 pounds each. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1.10, lb. \$3.25.**

Gigantic Gibraltar. A large sort for exhibition. Keeps well. See page 74. **Pkt. 15 cts., 1/2oz. 30 cts., oz. 50 cts., 1/4lb. \$1.40, lb. \$4.**

S. & W. Co.'s Riverside Sweet Spanish.

The largest, sweetest, best-keeping, and most uniform of the Spanish Onions. Globular in shape, with golden yellow skin and white flesh; the strain we are offering is very mild. A great favorite in sections with long seasons and rich soil, where it will attain its maximum development. **Pkt. 15c., 1/2oz. 30c., oz. 50c., 1/4lb. \$1.50.**

Collection

One packet each,
three varieties
Southport Globe
Onions:

**RED, WHITE,
YELLOW,**
for 25 cts.



S. & W. Co.'s Southport Globe Onions

LONG-KEEPING RED ONIONS

S. & W. Co.'s Southport Red Globe. Very similar to Wethersfield in color, having a deep red skin, but differing in shape, being almost a perfect globe. Size large, flesh fine-grained, mild and tender. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1.10, lb. \$3.25.**

Large Red Wethersfield. This is the standard red variety, and a favorite Onion in the East, where immense crops are grown for shipment. Bulb large, somewhat flattened, oval shape; skin deep purple-red; flesh purplish white, moderately fine-grained and stronger flavored than any of the other kinds. Very productive, the best keeper, and one of the most popular for general cultivation. It is more inclined to form large necks if planted on unsuitable soil than the Danvers, but is the better variety on poor or dry soil. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.**

BERMUDA ONIONS

These are large, flat, quick-growing types, with a pleasant, mild flavor. We offer new-crop imported seed.

Red Bermuda. Pkt. 15 cts., 1/2oz. 30 cts., oz. 50 cts., 1/4lb. \$1.40, lb. \$4.

Crystal Wax. Pkt. 15 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75, lb. \$5.

ONION SETS

Sets will produce green, bunch or full-grown Onions much quicker than will seed. Multipliers, Potato Onions, and Shallots divide and increase in the soil. Egyptian Onions are hardy perennials, yielding green pulling Onions every spring.

	Qt.	1/2pk.	Pk.		Qt.	1/2pk.	Pk.
White Onion Sets	\$0 40	\$1 25	\$2 25	White Multiplier Onions	\$0 50	\$1 60	\$3 00
Yellow Onion Sets	35	1 15	2 00	Shallots	55	1 75	3 25
Yellow Ebenezer or Japanese.	40	1 25	2 25	Egyptian Top Onions. Orders			
Red Onion Sets	35	1 15	2 00	booked for delivery in fall.....	40	1 25	2 25
Potato Onion Sets (True Potato).				Lb. 50 cts., 5 lbs. \$2.25, 10 lbs. \$4.25			

Garlic Sets

One pound will plant
100 feet of drill

CULTURE.—Garlic is used for a variety of flavoring purposes. Break up the sets or bulbs into the smaller scale-like portions and plant these 6 inches apart in rows 1 foot apart. As soon as the leaves have turned, the crop is matured, and may be harvested like the onion.

Garlic Sets. Lb. 50 cts., 5 lbs. \$2.25.

OKRA or GUMBO

One ounce will sow about
100 feet of drill

CULTURE.—Sow when the weather is warm and settled, in drills 1 inch deep and 4 feet apart; thin out to 12 inches apart in the drills. Okra requires 9 to 10 weeks from seed to maturity.

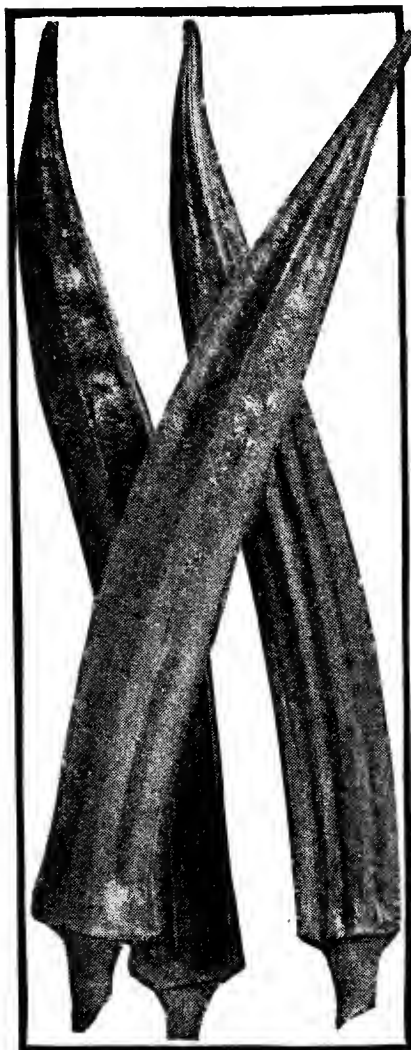
Dwarf Green. A very prolific sort, and its habit commends it where garden space is limited. The short, deep green, corrugated pods are of fine quality. Pkt. 10 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.

Lady Finger. A new variety from the South. Very productive; extra-long, slender pods of fine round form. Pkt. 10 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.

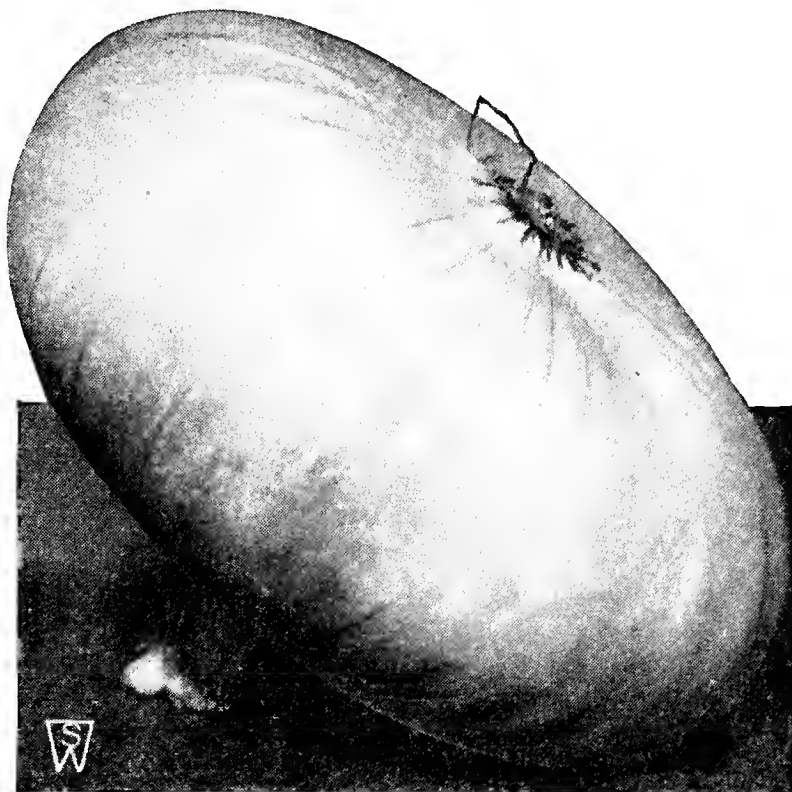
Kleckley's Favorite. One of the best varieties. Pkt. 10 cts., oz. 15 cts., 1/4lb. 35 cts., lb. 90 cts.

Long Green. Long ribbed pods; very productive. Pkt. 10 cts., oz. 15 cts., 1/4lb. 35 cts., lb. 90 cts.

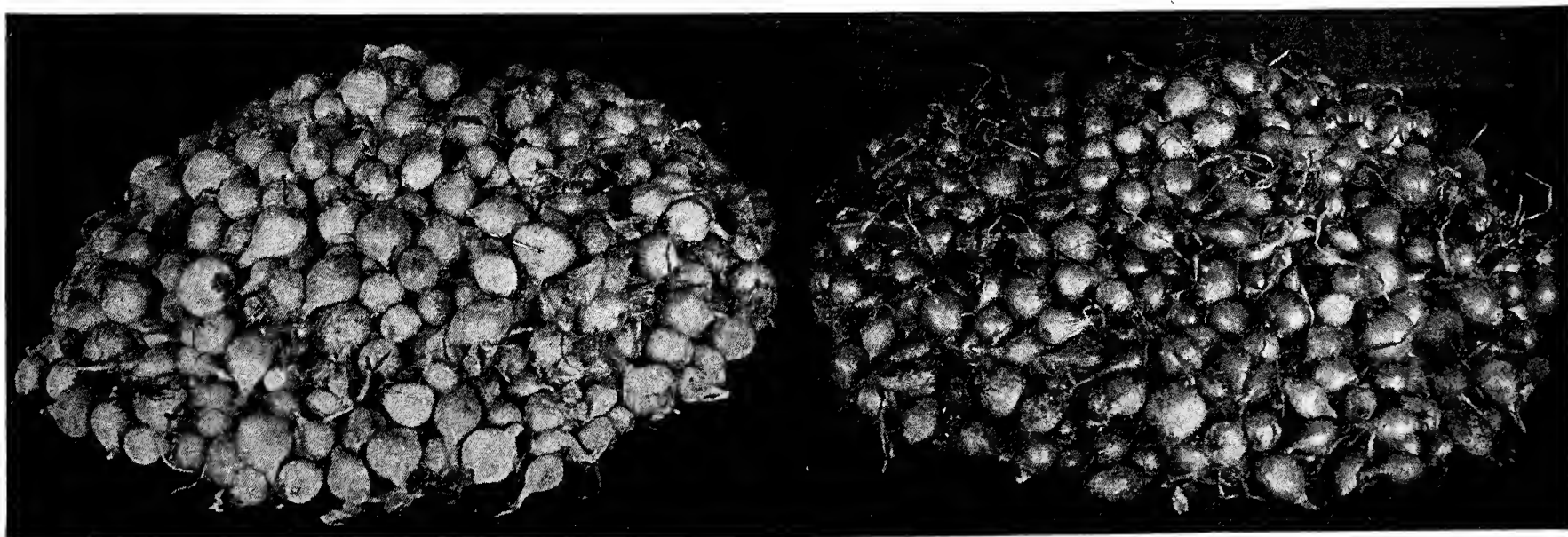
White Velvet. Very distinct in appearance; pods are perfectly round, smooth and of a white velvety appearance and of superior flavor. Pkt. 10 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.



Okra



Large Red Wethersfield Onion



Globe Onion Sets

PARSLEY

One ounce will sow about 150 feet of drill

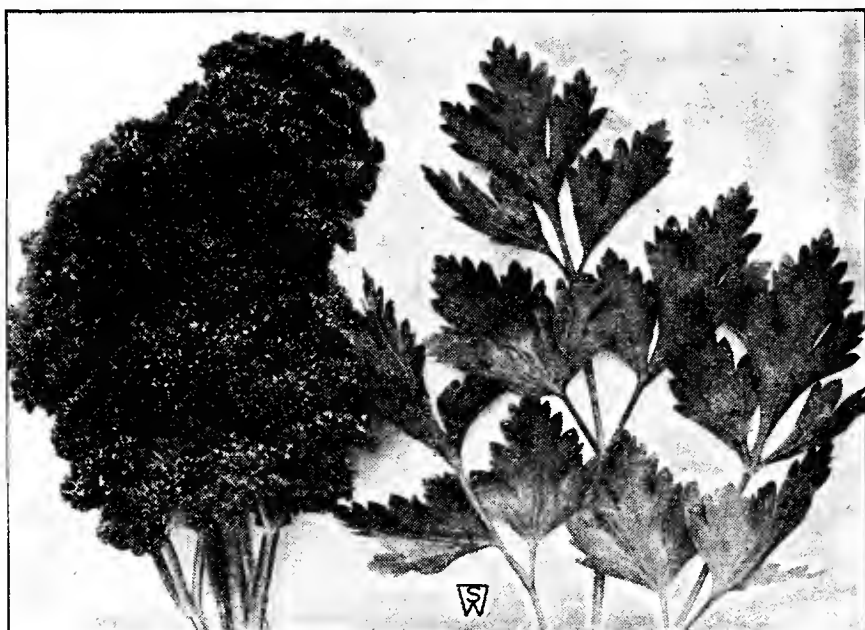
CULTURE.—Sow early in the spring in drills 1 foot apart and $\frac{1}{2}$ inch deep. Thin out the young plants to 4 inches. Hamburg Parsley should be treated the same as carrots.

Champion Moss Curled. A particularly beautiful type. As its name implies, a bed of this has the appearance of fine moss. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

Extra Double Curled. A market variety. The leaf is finely cut, curled and vivid green. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Emerald Gem. A very dwarf, compact variety, with leaves intensely curled and very dark green. For the home and edging purposes. Pkt. 25 cts., 5 pkts. \$1.

Exhibition Curled. This Parsley is remarkable for its extra-fine leaves and its dense habit of growth. Its flavor is superior to that of any other variety. The seed we offer has been saved from individual plants, each of them being of exhibition calibre. Pkt. 25 cts., 5 pkts. \$1.



Champion Moss Curled and Plain Parsley compared

Fern-leaved. This is a distinct variety, very different from the foregoing. We have the true type. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

Plain. Known widely as Italian Parsley. Used for flavoring. (See illustration.) Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

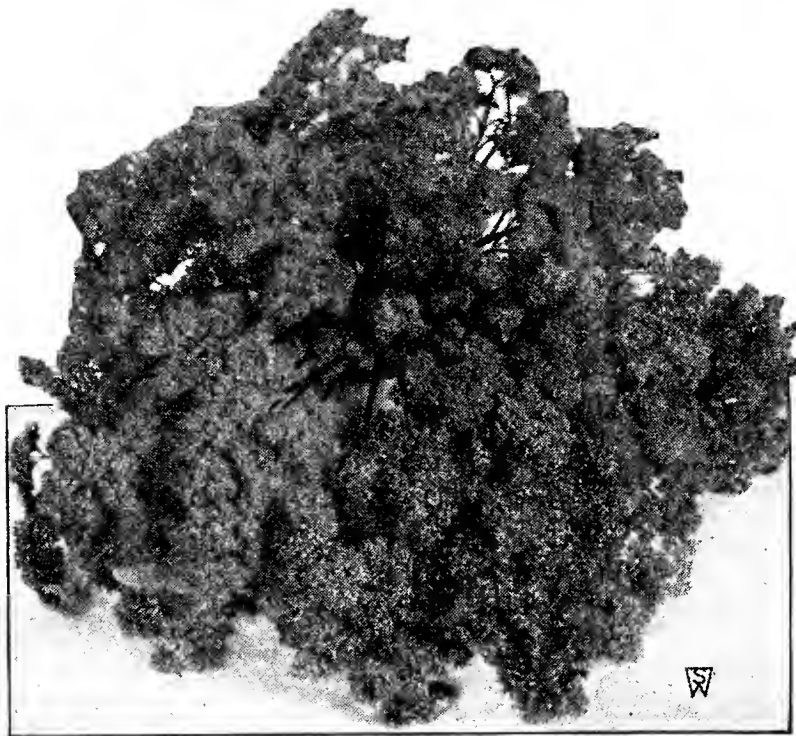
Hamburg or Rooted. The roots of this type resemble parsnips. They are served similarly or used for flavoring soups. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

PEANUTS

CULTURE.—These require similar soil conditions to garden corn, and they take about as long to grow. Remove the outer shell carefully, taking care not to damage the kernels, and sow the latter in drills $2\frac{1}{2}$ feet apart and 1 $\frac{1}{2}$ inches deep. Allow 9 inches between one "nut" and the next in the row.

Improved Spanish. Though small, this is a quick-growing sort and is therefore particularly suitable for northern gardens. Pkt. 15c., lb. 45c.

California Long Red. Larger than the above but slower to mature. Plant this variety south of the latitude of New York. Pkt. 15 cts., lb. 45 cts.



Extra Double Curled Parsley

PARSNIP

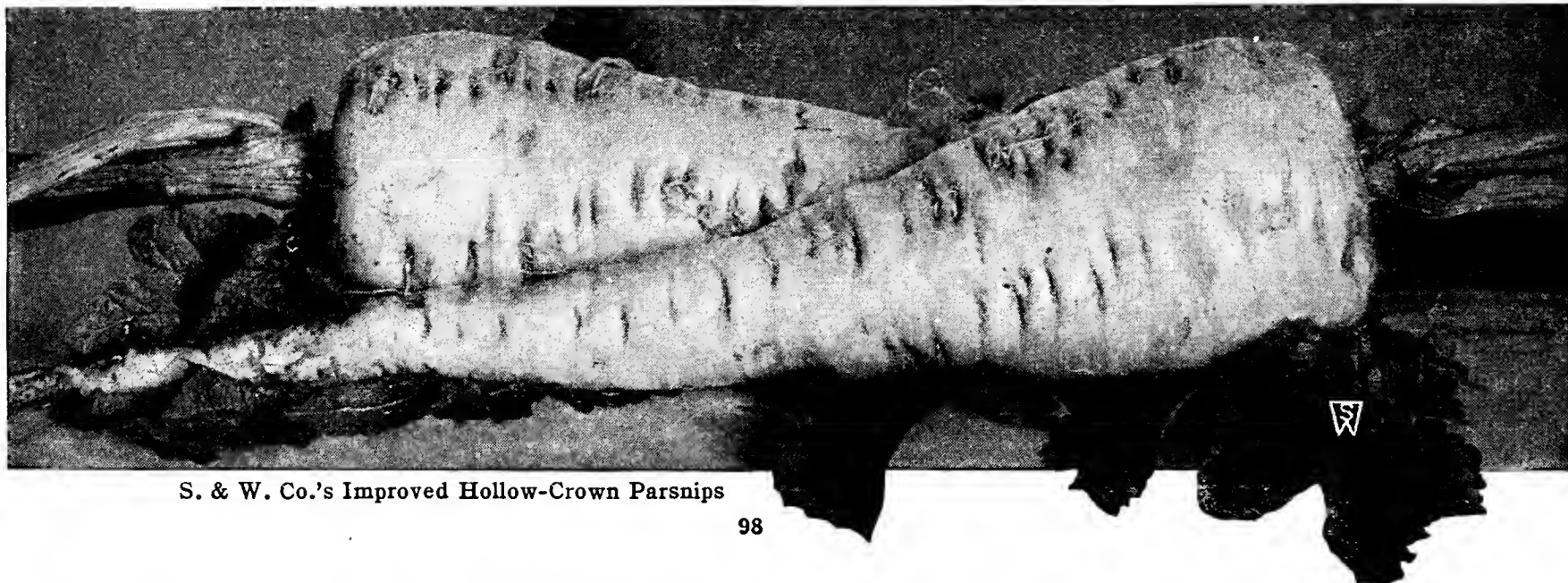
One ounce will sow about 200 feet of drill; 5 to 6 lbs. for an acre

CULTURE.—Sow as early in spring as the ground can be worked, in drills 18 inches apart, covering with fine soil to the depth of $\frac{1}{4}$ inch. The quality of the roots is improved after frost; they may be allowed to remain in the ground all winter.

S. & W. Co.'s Improved Hollow-Crown. A great improvement over the present Hollow-Crown variety; clean, well shaped and smooth. Smoothness in the root of a Parsnip is a matter of importance, as every housewife preparing it for the table will acknowledge. Excellent for table or exhibition. Pkt. 10c., oz. 20c., $\frac{1}{4}$ lb. 55c., lb. \$1.50.

S. & W. Co.'s New Intermediate. The root is somewhat flattened and top-shaped, about 6 inches long and 4 inches across the thickest part. It matures quickly and is therefore suitable for sowing as a second crop, following spinach or lettuce; or if put in when long parsnips are sown, may be pulled soon after midsummer. Particularly suitable for shallow land which ordinarily produces misshapen or fanged root-crops. Fine, melting table quality. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Selected Exhibition. This is the kind which produces roots several feet in length and ending in a fine whip-thong. The surface is smooth and white. Despite its size, the flavor is mild and sweet. Pkt. 25 cts., 5 pkts. \$1.



S. & W. Co.'s Improved Hollow-Crown Parsnips

PEPPER

One ounce will produce about 1,000 plants

CULTURE.—Peppers are more sensitive to frost than most vegetables, and they should not be planted out until settled warm weather has arrived. The seed should be sown in a hotbed, coldframe, or if no better convenience is available, a box in a window; transplant later into rows 20 inches apart each way, and keep the soil clean and well stirred. Productiveness may be increased by pinching the first or "king" blossoms which appear.

TEN SPLENDID SWEET PEPPERS



World Beater. Considered by many to be the best large sweet Pepper

Neapolitan (Jersey Sweet; White Cap). Very early and an extraordinary yielder. Its fruits grow upward, not pendent. They are bright red, sweet, fine, and tender. Commercial growers favor this Pepper. Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.25.

Golden Dawn. A yellow sweet Pepper of excellent table quality. Pkt. 15 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$2.75.

Sunnybrook Cheese. A very prolific and popular canning variety. Fruits average 3 inches in diameter and 2 inches deep. The skin is smooth and of deep scarlet color and the flesh is thick and sweet. Pkt. 15 cts., 1/2oz. 50 cts., oz. 85 cts., 1/4lb. \$2.50.

A WONDERFUL LONG SWEET PEPPER

Anaheim Chili. A long type that is classed as a sweet Pepper; it has just sufficient suggestion of pungency to make it delicious. The fruits are very meaty, measuring 7 inches or more in length, with a diameter of 1 inch. It is highly valued as a green chili, canned chili made from it is a revelation, while ripe and red, served as a salad, it is excellent. Pkt. 15 cts., 1/2oz. 65 cts., oz. \$1.10, 1/4lb. \$3.



Neapolitan. A sweet Pepper noted for its earliness and extraordinary yielding properties.

Chinese Giant. This is the standard large sweet Pepper. It is quite early to ripen and very productive for so large a variety. The fruits are 4 to 5 inches broad at the top, and of equal length. The flesh is mild and unusually thick, making an excellent salad sliced and served like tomatoes. Pkt. 15 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$2.75.

California Wonder. An improvement on Chinese Giant, and larger. Described on page 75. Pkt. 15 cts., 1/2oz. 65 cts., oz. \$1.10, 1/4lb. \$3.

Ruby King. The handsome fruits are 4 1/2 to 6 inches long, 3 1/2 inches thick, and bright red. Ruby King is used very largely for pickles, and it is equally suitable for slicing. The flavor of the fruits is mild and pleasant, with just a slight suspicion of piquancy. Pkt. 10 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.25.

Large Bell or Bull Nose. A large, early variety of pleasant flavor, though mild. This is the variety for green stuffed Peppers. Pkt. 10 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.25.

Sweet Mountain. Fruits 6 inches long by 4 inches thick, deep green when young and a handsome red when ripe. Pkt. 15 cts., 1/2oz. 50 cts., oz. 85 cts., 1/4lb. \$2.50.



Perfection Pimiento. A fine variety, unique in shape and in its fine qualities

THREE HOT PEPPERS

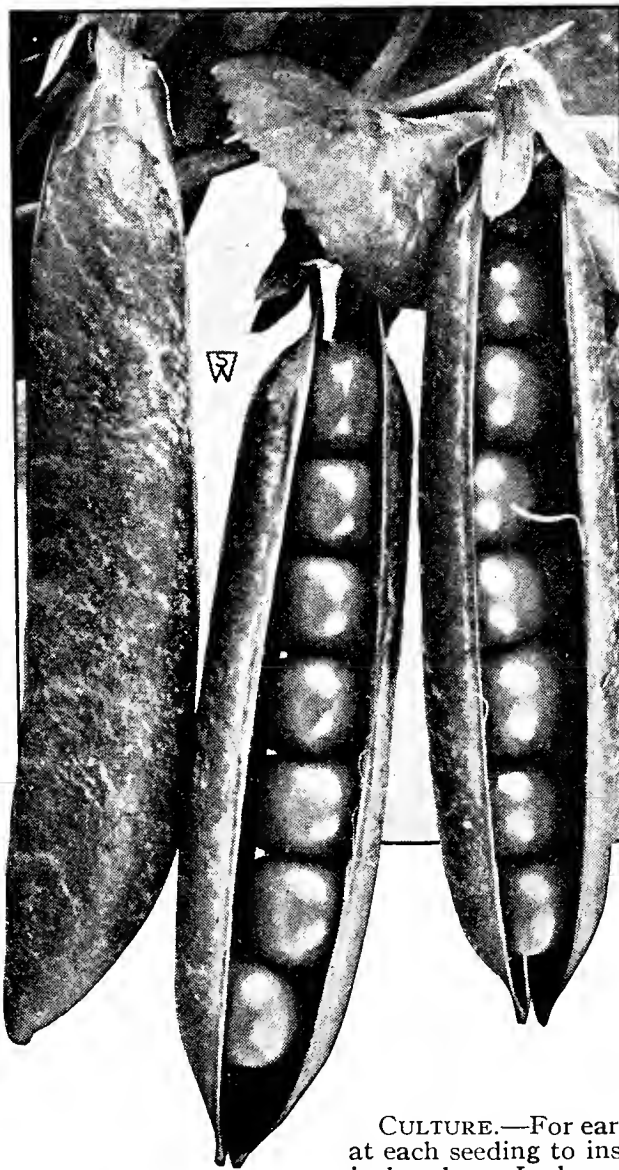
Long Red Cayenne. Fruits about 4 inches long and 1 inch thick, bright red in color; very prolific; very hot. Used for pickling, both when green and when ripe. Pkt. 15 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$2.75.

Tobasco. For the market and for making the well-known Tobasco sauce. A small and very pungent type. Pkt. 20 cts., 1/2oz. 65 cts., oz. \$1.10, 1/4lb. \$3.

Cherry Red. Small, round fruit, rich scarlet in color, and extremely piquant. Pkt. 15 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$2.75.

FOR THE VEGETABLE GARDEN, USE STUMPP & WALTER CO.'S
SAWCO GARDEN FERTILIZER

5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 100 lbs. \$4.50



Laxtonian Pea. A wonderful medium-dwarf variety that is unusually prolific. Full description on opposite page.

PEAS NORTHERN GROWN

One pound will plant 100 feet of drill

CULTURE.—For early crops sow as early in spring as practicable, and again two weeks later. Use several varieties at each seeding to insure as long a productive season as possible. Plant in single or double rows, 4 feet apart and 2 inches deep. In dry weather soak the Peas over night before planting. In the vicinity of New York the extra-early

Peas, if planted from the 15th to the last of August, will produce a moderate crop for late picking when they will be found most acceptable. Varieties marked * are wrinkled Marrows, and should be sown more thickly than the round Peas, and not until the ground has become warm, as they are more liable to rot. All wrinkled sorts are much superior in flavor to the round Peas.

EARLY SMOOTH-SEEDED SORTS

First of All or Pedigree Extra-Early. Extremely hardy and early. The first planting of Peas should be with First of All. It is a smooth-seeded variety, a splendid cropper; Peas very tender, of good flavor and carried in long, tightly filled pods. Height 2½ feet. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.50.

Early Bird. Combines the hardiness of the round-seeded types with the quality of the wrinkled Marrowfats. The plant grows 4 feet high, and therefore requires the support of brush, or strings. Throughout its height it bears profusely 4-inch pods closely packed with Peas of fine flavor. Early Bird is a few days earlier than Gradus when sown at the same time, but you may safely plant it ten days ahead of Gradus. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

Eight Weeks. A remarkable super-first-early round-seeded Pea, 18 inches high. It may be sown on a warm border when snow is still present in other parts of the garden; the result will be luscious Peas weeks before those obtained from main seedings. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

Market Surprise. On vines 3 feet tall, Market Surprise bears 3½-inch pods in great quantities, within 60 days from sowing. It is thus but four days later than the best Extra-Early, while the pods contain on an average two more Peas, and the Peas are larger. A round-seeded sort of truly remarkable sweetness. Home-gardeners and truckers will find this new sort a big surprise in every way. Pkt. 10 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.

Petit Pois. Imported seed. The delicious tiny Peas which are served in the Paris hotels. Pkt. 15 cts., ½lb. 35 cts., lb. 65 cts., 2 lbs. \$1.25.

EARLIEST WRINKLED SORTS

***World's Record.** An improved Gradus. Among early main-crop Peas of medium height, Gradus, or Prosperity takes first place; happily named, indeed, on account of its high yield and superb flavor. In World's Record these points are more than maintained; the yield is as high and the quality, if anything, is enhanced. The great point in favor of the new sort is its earliness, the period from seed to maturity being less by a week than that of the standard Gradus. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

***Gradus, or Prosperity.** One of the most valuable standard sorts introduced up to the present time. The vine has heavy stems, with large, light green leaves and grows about 3 feet high. It produces uniformly large pods, measuring from 4 to 4½ inches in length, nearly round and well filled with very large, handsome Peas of the finest flavor; very early, ready for picking after First of All is through, and leaves little to be desired. Pkt. 10 cts., ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.50.

***Little Marvel.** This popular variety needs no supporting brush; it is a first-early Pea of the finest quality, better than American Wonder or Notts Excelsior. The vines of dwarf, even growth, average 18 inches high, and are heavily set with fine pods, usually in pairs. The pods average 3½ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. The Peas are ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. Begins to bear just as Gradus is at its best. Pkt. 10 cts., ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.50.

NOTE.—One pound of Peas approximately is equal to about 1 pint; 2 pounds to about 1 quart.

PEAS NORTHERN GROWN

EARLIEST WRINKLED SORTS, continued

***Thomas Laxton.** A remarkably fine, early, wrinkled Pea, and we think destined to supersede Gradus. In many characteristics it resembles that excellent sort, but the pods differ in shape, and are certainly more numerous. The Peas are of extra-fine quality, tender and of a flavor not excelled by any other. It grows about 3 feet in height, but some growers do not use brush. Ready for picking at the same time as Sutton's Excelsior. It is a remarkably profitable market Pea, as it is always in demand and brings the best prices. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.50.

***Sutton's Excelsior.** A variety that calls for highest commendation; equal to Gradus in quality but dwarf and considerably more productive. Ready for picking just after Gradus and Little Marvel. Height 18 inches. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.50.

***Laxtonian.** A very fine dwarf early Pea. Unusually large pods, borne on long-growing, sturdy vines. Unlike many of its class, the large pods are filled with large, luscious Peas. It is ready for use about a week later than the very early sorts. The plant grows about $1\frac{1}{2}$ feet high, and is of a rich dark green color, which proves it to be of vigorous constitution, and this enables it to resist the extreme conditions to which Peas are subjected in many sections of the United States. (See photograph on opposite page.) $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.25.

***Laxton's Progress.** A new Pea, and quite one of the best of the large-podded, early, wrinkled sorts. Planted at the same time as Laxtonian, it is ready to pick nearly a week earlier. The pods are 4 inches long and are filled with eight large, melting, sweet Peas. The plant grows 18 inches high. $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$2.10, 15 lbs. \$5.50.

MIDSEASON AND MAIN-CROP

***Delicious.** See Novelties, page 74. $\frac{1}{2}$ lb. 30c., lb. 55 cts., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.

***Sawco Forty.** See novelties, page 74. $\frac{1}{2}$ lb. 30 cts., lb. 55 cts., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.

***Admiral Beatty.** The parents of this splendid recent English introduction are Gradus and Alderman, and it is intermediate between them in habit and season. It is $3\frac{1}{2}$ feet high, and the Peas are wrinkled; their cooking quality is excellent. The pods are long and pointed, contain nine or ten Peas, and are produced abundantly. Pkt. 15c., $\frac{1}{2}$ lb. 30c., lb. 55c., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.

***Alderman.** A distinctly different Pea in habit from those described in the Early list. On generous soils it grows to a height of 5 to 6 feet, and should be supported with brush or trellis. The pods contain seven large, elongated, dark green Peas of the highest quality, and follow in the wake of Thomas Laxton. The plants bear very protusely and the Peas bring the highest price in market. $\frac{1}{2}$ lb. 25c., lb. 45c., 2 lbs. 85c., 5 lbs. \$2, 15 lbs. \$5.50.

***Quite Content.** One of the largest-podded Peas in existence and in season similar to Alderman. This variety is preferred by many growers to Alderman on account of its large pods. Height 5 feet. $\frac{1}{2}$ lb. 30 cts., lb. 55 cts., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.

***Boston Unrivalled, or Telephone.** This variety is much like Alderman, with vines fully as tall, though the pods are slightly smaller; bears right up to the season of the very late sorts. The yield of pods is good and they are uniformly well filled. The Peas are every bit as tender, but light green in color and sweet. Height 5 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.50.

***Potlach.** Really an improved Stratagem and, without a doubt, the best dwarf, extremely late Pea. Healthy bluish green vines, bearing loads of deep green pods; frequently an average of eight pods in pairs containing an average of seven fine, large Peas of superfine flavor. A continuous bearer from July 1 to 15 in most seasons. Height 2 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2, 15 lbs. \$5.50.

***Champion of England.** Vines grow 4 to 5 feet high. Peas of excellent quality and delicious flavor. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 15 lbs. \$4.50.

EDIBLE-PODDED SUGAR PEAS

Used in the same manner as wax beans

Luscious Melting Sugar. Large, broad pods, which are so brittle that they snap without any string. Height 5 feet. $\frac{1}{2}$ lb. 30 cts., lb. 55 cts., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.

Very Dwarf White Sugar. Unusually dwarf; very similar in habit to Little Marvel. The pods are of excellent melting quality. $\frac{1}{2}$ lb. 30 cts., lb. 55 cts., 2 lbs. \$1, 5 lbs. \$2.25, 15 lbs. \$6.25.

Collections of Garden Peas for a Continuous Supply

Market Surprise. A wonderful, round-seeded variety, yielding in about 70 days from seed. Height 3 feet.

***Gradus.** The standard early wrinkled Pea, yielding generally in 80 days. Height 3 feet.

***Little Marvel.** A wrinkled sort, $1\frac{1}{2}$ feet high. Requires about 85 days from seeding to maturity.

***Telephone.** The standard late tall wrinkled Pea. Produces its pods in about 90 days from seed. It grows 5 feet high.

***Potlach.** An extremely late wrinkled variety, yielding in 95 days from seeding. Height 2 feet.

Postpaid
One packet each of above five Peas.....\$0 40
Half-pound each of above five Peas.....1 15

Postpaid
One pound each of above five Peas.....\$2 00
Two pounds each of above five Peas.....3 75



Quite Content

One of the largest-podded Peas in cultivation.



Alderman Peas

SEED POTATOES

CULTURE.—Any good, well-drained, fibrous loam will produce Potatoes under right climatic conditions. For early Potatoes, which mature in eight to ten weeks from planting, the soil must be particularly rich. A rich clover sod, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in best shape for giving a good yield of nice, clean Potatoes. Stable manure had better be applied to the land the year before. Sawco General Garden Fertilizer, at the rate of up to 1,000 pounds to the acre if applied broadcast, or 400 to 600 pounds if applied mostly in the rows, may be used directly for the Potato crop. Open furrows 3 feet apart and 3 to 4 inches deep. Apply the fertilizer and run the furrower or small plow again in the furrow to mix the fertilizer with the soil and leave a mellow seed-bed. Then plant good-sized pieces, each containing not less than two or three eyes, 15 inches apart in the furrows for early Potatoes, and 18 inches apart for late ones. Return the soil with a coverer, small plow or other suitable tool. About 11 bushels or 4 barrels will plant an acre. A barrel contains 2 3/4 bushels (165 pounds).

SEMESAN Bel. It controls diseases of seed potatoes, producing sprouts of healthy vigor, from which grow increased yields of clean, healthy plants and tubers. 4 ozs. 50 cts., lb. \$1.75, 5 lbs. \$8, 25 lbs. \$31.25.



BEST EARLY POTATOES

Early White Albino. This wonderful new early Potato is a good cropper. The skin and flesh are extremely white, of exceptionally good cooking quality and very prolific, fully as early as the old Early Rose in maturing, and particularly valuable for the early market by reason of its fine shape and early maturity. The vines grow erect, and it is one of the best early varieties to withstand blight and disease. Plant this Potato early in good soil, give it good cultivation, and pleasing results will be sure at harvest-time. One grand thing in favor of this early Potato is its great keeping quality which makes it a valuable sort for the home- or market-garden. 1/2pk. 65 cts., pk. \$1.15, 1/2bus. \$2, bus. \$3.50, bbl. \$8.

Irish Cobbler. One of the best extra-early varieties of Potatoes. Does well on most all soils; very productive, and of excellent eating quality. The skin is creamy white, sometimes netted, which is an indication of good quality; eyes are strong, well developed, and but slightly indented. The flesh of this variety is white and of fine quality. 1/2pk. 50 cts., pk. 85 cts., 1/2bus. \$1.50, bus. \$2.75, bbl. \$6.

Early Rose. (Selected.) A variety which has been grown extensively in some sections. A Potato of good size and fine quality. 1/2pk. 60 cts., pk. \$1, 1/2bus. \$1.85, bus. \$3.25, bbl. \$7.50.

BEST MAIN-CROP POTATOES

Russet. Considered the finest Potato extant. The haulm is dark green and very distinct, while the variety seems to be as near blight-proof as a Potato can be. The tubers are round to oblong, very large, and from 6 to 10 are ordinarily obtained from a hill; the flesh is pure white and the skin has a roughened russet appearance. 1/2pk. 60 cts., pk. \$1, 1/2bus. \$1.85, bus. \$3.25, bbl. \$7.50.

Gold Coin. A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form; light golden skin; flesh pure white, fine-grained; cooks very dry. 1/2pk. 50 cts., pk. 90 cts., 1/2bus. \$1.65, bus. \$3, bbl. \$7.

Green Mountain. (Selected Stock.) A late, heavy cropper of excellent quality; skin smooth and white; shape roundish flat; eyes few and shallow; a good keeper. 1/2pk. 50 cts., pk. 85 cts., 1/2bus. \$1.50, bus. \$2.75, bbl. \$6.

PUMPKINS

One ounce will plant
50 hills

CULTURE.—Plant in April or May, among corn, or in the garden, in hills 8 to 10 feet apart, and otherwise treat in the same manner as melons.

Large Cheese. A most popular variety. Fruit flattened, the diameter being two or three times more than the thickness; skin mottled light green and yellow, changing to rich cream-color as it matures; flesh tender and of excellent quality. Pkt. 10c., oz. 20c., 1/4lb. 55c., lb. \$1.50.

Sweet or Sugar (New England Pie). The fruits are medium to small in size, of a bright orange color, and in shape are round, flattened at the ends. The flesh is of remarkably good cooking quality, very thick, and deep yellow. Pkt. 10 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.50.

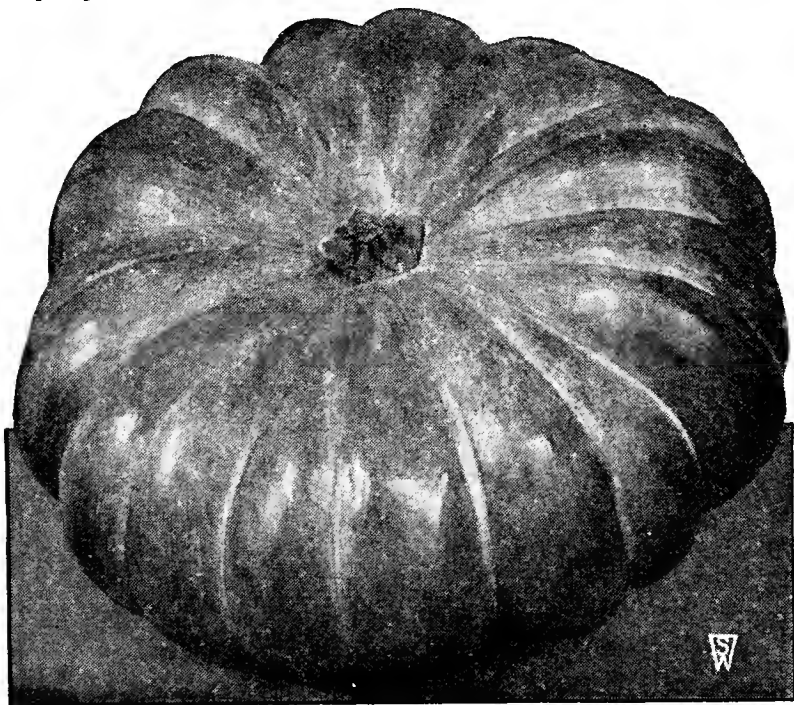
Winter Luxury. Best pie Pumpkin; productive; keeps well. Finely netted and russet in color. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Mammoth Tours. An enormous Pumpkin. The skin is pale gray-green in color, marbled deeper green, smooth and slightly ribbed. The flesh is yellow and of fair quality. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Golden Cushaw or **Jonathan.** Has an enlarged, fleshy neck. A thick-meated Pumpkin of good table quality. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

King of the Mammoths. Recommended where size is the chief consideration—200 pounds or more being not an unusual weight for a single specimen. The fruit is flat-round; the skin is yellow, as also is the thick flesh. Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1, lb. \$2.75.

Connecticut Field. Good for pies and for canning; also largely grown for stock feeding. Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.25.



Large Cheese Pumpkin

RADISH

One ounce will sow
about 100 feet of drill

As early in the spring as the soil can be worked, sow any of the early round or olive-shaped varieties in rows, $\frac{1}{2}$ inch deep, with a foot to 18 inches between the rows. Sow thinly. If seedlings appear closer than one inch apart, they should be "thinned out." Hoe frequently to encourage rapid growth which insures high quality. The early spring sorts serve the purpose until June 15, when Icicle and Cincinnati Market are at their best. The summer sorts are good until frost from repeated planting. The winter varieties should be pulled after light frosts and stored like beets. Both summer and winter Radishes should be "thinned" to stand from 4 to 6 inches apart in the row. After the middle of May, do not sow the flat, round, and olive-shaped spring sorts. Sow White Icicle and Cincinnati Market. These resist hot weather well. About July 1, sow the winter varieties.

EARLY ROUND AND OLIVE-SHAPED VARIETIES

Early Scarlet Turnip. Within 25 days from date of sowing it perfects handsome, flat roots, $\frac{3}{4}$ inch in diameter by $\frac{1}{2}$ inch deep through. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Sparkler. Of rich carmine-scarlet color, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp and sweet. It is equally well adapted for forcing in frames or growing in the open ground. While the leaves are small, they are sufficiently large for bunching. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

Early Scarlet Globe. The best general-purpose variety in this class, perfecting handsome roots, as illustrated alongside, in from 28 to 35 days after sowing. Of distinct shape, brilliant color, short-leaved, crisp and white; an excellent variety for forcing. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

White Box. An almost globe-shaped sort, slightly flattened, with pure white skin and crisp flesh. Unlike most other early sorts, it remains in fine table condition until quite overgrown. Ready in from 35 to 40 days. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

Olive-shaped Scarlet. Flesh bright and crisp. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$1.75.

Olive-shaped White. Pkt. 10c., oz. 25c., $\frac{1}{4}$ lb. 65c., lb. \$1.75.

French Breakfast. The olive-shaped counterpart of Sparkler among the early round sorts, as described above. Mild and crisp. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Twenty-day Leafless. (See Novelties, page 75.) Pkt. 15 cts.; oz. 45 cts., $\frac{1}{4}$ lb. \$1.30, lb. \$3.50.

BEST EARLY LONG SORTS

White Icicle. The "best all-round" Radish for all purposes in the home-garden; also fine for market and splendid for growing under glass. Within 30 days from sowing seeds, the roots attain a length of 4 to 5 inches, by $\frac{3}{4}$ inch in diameter at the thickest part. The skin is thin, the flesh crisp and mild. It remains in fine table condition longer than any other early sort, regardless of shape. (See illustration.) Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

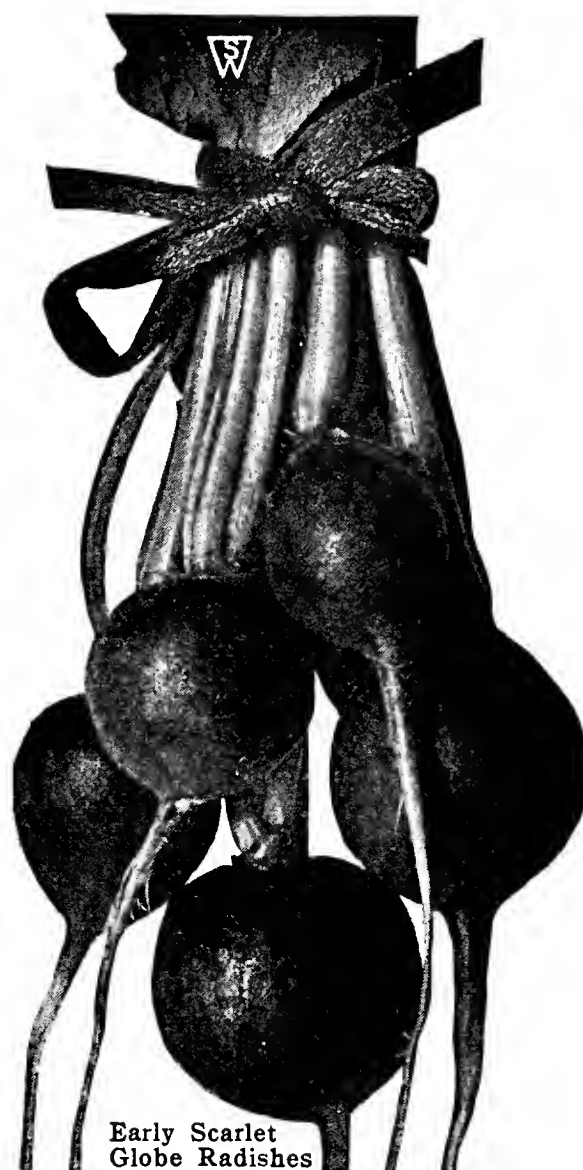
Cincinnati Market. By far the best strain of the long, scarlet, short-top Radishes. Roots 6 to 7 inches long, an inch thick through, are produced within 35 days after sowing and they remain in perfect condition for the best part of a week. Skin rosy scarlet, blending into pure white at the tip. It is well to remember that the long sorts require a deep, rich soil, free from stones and of a loose, sandy nature, in order to develop perfectly. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

SUMMER VARIETIES

Long Scarlet Chartier, or Shepherd. This might be considered "the connecting link" between the foregoing sorts and the very much later kinds that follow. Long Scarlet Chartier is ready in about 45 days after sowing. The color at the top is crimson, running into pink about the middle, and from thence downward is a pure white. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

Early Golden Yellow Oval. Absolutely unsurpassed in heat-resistance. When ready for use, the Radishes average 1 $\frac{1}{2}$ to 2 inches in diameter and have a beautiful, golden yellow skin, which should be removed when preparing roots for table. Flesh pure white, mild, crisp, and solid. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

White Strasburg. Shape tapering; skin and flesh both white; excellent summer variety. Pkt. 10c., oz. 20c., $\frac{1}{4}$ lb. 45c., lb. \$1.25.



Early Scarlet
Globe Radishes

LONG-KEEPING WINTER RADISHES

Sakurajima. A Japanese sort which reaches truly remarkable size. The circumference of some is 43 inches, the length 21 inches. The skin is white and the flesh is always crisp and tender. The taste is more delicate than our American varieties. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

California Mammoth White Winter. A white-fleshed Radish of excellent quality. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Rose China. Bright rose color; flesh firm and piquant; fine for winter use. Pkt. 10c., oz. 20c., $\frac{1}{4}$ lb. 55c., lb. \$1.50.

Long Black Spanish. The popular winter sort. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$1.75.

Round Black Spanish. Thick black skin and pure white flesh. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$1.75.

RHUBARB

CULTURE.—Plant the roots in well-manured land, 3 feet apart. Sow seed in spring in drills a foot apart; transplant the following season 3 feet apart. One ounce of seed should produce about 1,000 roots.

Rhubarb Roots. 15c. each, \$1.50 per doz., \$10 per 100; extra-strong clumps, 25c. each, \$2.50 per doz., \$20 per 100; forcing clumps, 50c. ea., \$5 per doz., \$35 per 100.

Rhubarb Seed. The variety *Victoria*; has given good results for many years. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.



White Icicle Radishes



New York

Market Spinach (Long Island Grown)

SPINACH

One ounce will sow about 100 feet of drill

CULTURE.—Sow in March or April in drills an inch deep and 14 inches apart; again in August or September. Spinach delights in very rich soil—in fact, it is no use sowing it in a poor one.

S. & W. Co.'s New York Market. This Spinach grows rapidly and produces unusually large, thick, crumpled leaves of beautiful green. Properly cultivated and manured, the plants very often measure 2 feet across, and stand the winter better than any other sort of Spinach. **Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.**

S. & W. Co.'s Savoy-leaved. A variety highly valued alike by market-growers and home-gardeners. The leaves are wrinkled and crumpled, resembling, to an extent, the Savoy cabbage. The variety is profitable on account of the heavy yield of produce, is particularly hardy, and ours is a special strain of the long-standing type. **Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.**

S. & W. Co.'s Large Thick-leaved. A splendid variety for the market-grower and trucker. The leaf is large and very thick. The fact that Thick-leaved is a type that is slow to run to seed makes it a favorite for late spring and early fall seedings. **Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.**

Princess Juliana. Delicious table quality is the outstanding feature of this fine Spinach. Also, it stands longer without running to seed than other kinds, and is therefore excellent for sowing in midsummer and fall. The growth is very even and the plants develop quickly their rosettes of big, wrinkled leaves of a lush, deep green. Excellent in every way. **Pkt. 10c., oz. 15c., ¼lb. 40c., lb. \$1.**

Long Season. A distinct variety, standing from two to three weeks longer than any of the other sorts in this climate without going to seed. **Pkt. 10 cts., oz. 15 cts., ¼lb. 25 cts., lb. 60 cts.**

Monstrous Viroflay. A fine selection of the old lettuce-leaved Spinach. Excellent for summer use. **Pkt. 10 cts., oz. 15 cts., ¼lb. 25 cts., lb. 60 cts.**

Victoria Long-Standing. A variety suitable alike for spring and fall seeding. It is of low, compact habit; leaves shining dark green and heavily crumpled, forming a dense, flat rosette with very short petioles. Victoria is a great favorite with the market-grower on account of the slowness with which it shoots to seed. **Pkt. 10 cts., oz. 15 cts., ¼lb. 25 cts., lb. 60 cts.**

Prickly or Winter. The hardiest Spinach, and a variety of actual merit. Used chiefly for latest fall seedings. **Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.**

S. & W. Co.'s Emerald Standing. See Novelties, page 75. **Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.25.**

Blight-resistant Spinach. See Novelties, page 75. **Pkt. 10c., oz. 15c., ¼lb. 35c., lb. \$1.**
Perpetual Spinach. The seed of this desirable plant may be sown any time from April to June, and in six weeks cutting may commence, to continue right through into fall, for Perpetual Spinach is highly resistant to frost. The "greens" furnished are similar in flavor to true Spinach, the leaves being very tender, even when allowed to grow large; they are both palatable and healthful. Cut the leaves about 3 inches from the ground. We offer a special strain of seed. **Pkt. 15 cts., oz. 35 cts., ¼lb. 90 cts., lb. \$2.50.**



Large Thick-leaved Spinach. A variety that is slow to "bolt" to seed

SALSIFY (Vegetable Oyster)

One ounce will sow about 50 feet of drill

CULTURE.—Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored like carrots. Those remaining will be improved by being left in the ground until spring.

Mammoth Sandwich Island. Tender and delicious. Superior to all other sorts. **Pkt. 10 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.**

SCORZONERA

(Black Salsify)

One ounce will sow about 50 feet of drill

CULTURE.—Cultivate the same as salsify. The roots should not be scraped, but simply washed, boiled tender, then peeled and served like asparagus.

Improved. **Pkt. 15 cts., oz. 65 cts., ¼lb. \$1.75, lb. \$5.**



Mammoth Sandwich Island Salsify

NEW ZEALAND SPINACH

The plants grow very vigorously, do not run to seed, and withstand drought much better than Spinach. Furnishes a summer supply of green boiled vegetables. It is recommended for use, also, on soils too poor to carry Spinach of the true type, as it grows naturally on dry upland situations.

Sow during May, in drills which should be at least 2 feet apart, as the plants spread rapidly. Thin to 9 inches between the plants in the row. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. \$1.50.**



Green Lyon. The smooth-leaved type with short, thick white "Chards" or stems.

SWISS CHARD

Spinach Beet

One ounce will sow about 100 feet of drill

The plants are cultivated for the leaves which are used for "greens," the same as spinach or beet-tops; they are equal in quality and easier to prepare than spinach, and far superior to beet-ops. Sow as early in spring as the ground can be worked, in rows 12 inches apart, and thin out to 5 inches apart in the rows. As it grows, thin out for use. It can be used all summer when spinach is not available.

Mammoth New York. This is a new and quite distinct sort, medium green in color, and of large size. The leaves are smooth, and the stalks are solid, thick, and of a pearly whiteness. Careful breeding has entirely eliminated the earthy flavor which many Chards possess. We anticipate a large demand for this variety. **Pkt. 15 cts., 1/2 oz. 30 cts., oz. 55 cts., 1/4 lb. \$1.75.**

Giant Lucullus. Plants of this variety grow to a height of 2 to 2 1/2 feet. The stalks are quite thick, 1 1/2 inches broad, heavily ribbed and from 10 to 12 inches long below the leaf. The extra-large leaves are sharply pointed at the top, while in texture they are heavily crumpled. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks, served as separate vegetables, afford two distinct dishes from the same plant at one time. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 65 cts., lb. \$1.75.**

Green Lyon. A vigorous-growing, stocky type with smooth, deep green leaves and broad, thick stalks. A very popular variety. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 55 cts., lb. \$1.50.**



Giant Lucullus.
A tall Swiss Chard with deeply wrinkled and crumpled leaves.

SEA KALE

One ounce will produce about 300 plants

Sow in drills 2 feet apart, thin out to 6 inches, and the next spring plant in hills 18 inches apart. The blanched leaf-stalks are boiled and served with cream sauce. A very usual method of cultivation is to dig the roots and "force" them during winter in the same way as Witloof. **Pkt. 20 cts., 1/2 oz. 50 cts., oz. 90 cts., 1/4 lb. \$2.40, lb. \$6.50.**

SORREL

One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the spring in drills 6 to 8 inches apart.
Garden. Used for salads, and much esteemed on account of its pleasant acid flavor. Also widely used in many sections of the country as a boiled vegetable. The plant is perennial, and will yield for several years. We offer a refined narrow leaf type. **Pkt. 20 cts., oz. 65 cts., 1/4 lb. \$1.75, lb. \$5.**

TOBACCO

One ounce of seed will produce sufficient plants for one acre

Sow under glass during February and plant out, 3 feet apart each way, during early June.

Connecticut Seed-Leaf. A variety which can be used for cigar wrappers and for general purposes. **Pkt. 10 cts., oz. 75 cts.**

Narrow-Leaf Oronoko. This is widely used in Virginia for cigar fillers and as a cigarette tobacco. **Pkt. 10 cts., oz. 75 cts.**

Vitamins in Vegetables

Vitamins are elusive chemical substances that are present in minute quantities in some foods. They have little nutritive value in themselves, but their presence is necessary before foods nourish us.

We have always known that plenty of fresh vegetables make for good health, but only now are we learning that it is the Vitamins in them which are responsible; that they are more abundant in some vegetables than others; that Vitamins are found in these vegetables mostly when fresh.

We obtain most Vitamins when we eat salads, and we should partake of them freely—mixed salads, with plenty of lettuce, endive, radish, and mustard and cress seedlings. Tomatoes, too, should be used freely for they have so much of all the Vitamins that their juice is equal to orange-juice for growing children; the juice of rutabaga is similarly excellent for the young. Celery should be included, for it has Vitamin B and happens, also, to be helpful in rheumatism and nerve-troubles, and do not forget pulling-onions, or, better still, chives. Then, we should not omit the cooked vegetables, served chilled with salads: asparagus, rich in Vitamin A; celeriac with Vitamin B; parsnips with both A and B; and turnips with both B and C.

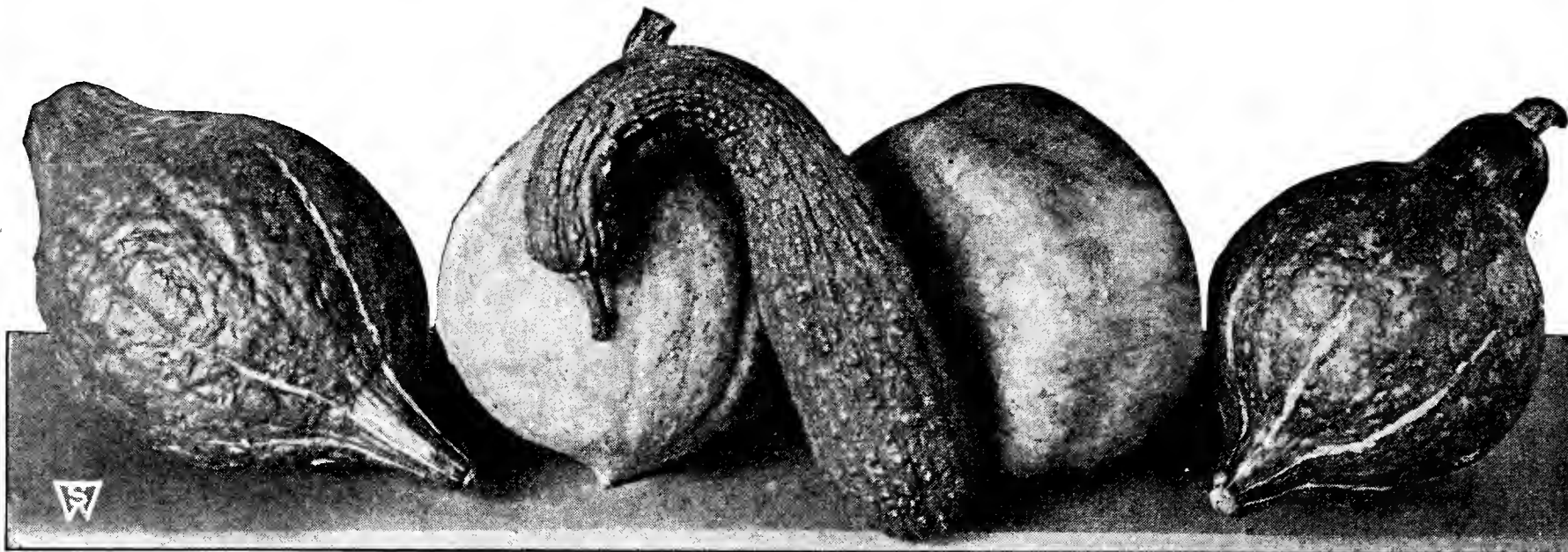
In the cooked "greens," also, we find health, but it is better to

steam them than to boil them, because cooking quickly dissolves Vitamin C, and that is why water used for cooking vegetables should always be saved and used as a base for soups. The most important of these "greens" is spinach, rich in all the Vitamins and furnishing the valuable minerals, iron and lime, as well; but equally good are beet-tops, turnip-tops, broccoli, swiss chard, kale, and brussels sprouts.

The more substantial cooked vegetables—beans, carrots, etc.—supply us with abundant food-values in addition to Vitamins. Snap beans and peas, both rich in lime, give us Vitamins A, B, and C, while the sprouted beans, which are a feature of Chinese cooking, are especially rich in Vitamin C; carrots, yielding phosphorus, furnish A and C; sweet corn, A and B; while kohlrabi has C.

Vitamin A promotes healthy growth, its absence from the diet being responsible for rickets in children. Vitamin B maintains normal bodily functions, and when it is missing we suffer from digestive troubles, neuritis, and anæmia. Scurvy appears and we lack stamina when the supply of Vitamin C is cut off.

The greater variety we have in vegetables the better, and the fresher they are the more Vitamins they contain. Enjoy the widest variety, fresh from the garden; in other words, *Grow Plenty of Vegetables.*



Hubbard

Boston Marrow

Crookneck

Delicious

SQUASH

One ounce of Early Squash will plant about 25 hills
One ounce of Vegetable Marrow will plant about 50 hills

CULTURE.—It is not advisable to plant before May 15. Sow in hills in the same manner as cucumbers and melons.

SUMMER VARIETIES

Long Island White Bush. A selection of the Old White Bush Scalloped, and a vast improvement upon it, having less prominent ridges and being much deeper. Pkt. 10 cts., oz. 25 cts., 1/4lb. 65 cts., lb. \$1.75.

Giant Bush Summer Crookneck. The Crookneck class of Squash surpasses in quality most of the summer varieties, and in the Giant Bush we have the delicious buttery flavor of the original sort, but of just double the size. Pkt. 10c., oz. 25c., 1/4lb. 65c., lb. \$1.75.

Straightneck. A golden summer bush Squash of delicious flavor, selected from the Giant Summer Crookneck, but with straight neck. Fruits are warted, 18 to 20 inches long, and of the same fine quality as Crookneck. Pkt. 15 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.

Fordhook. Although a summer Squash, Fordhook will also keep well for winter use. The fruits are pointed, nearly a foot long, and about 5 inches in diameter; the rich, buttery flavor is quite distinct and very fine. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Golden Custard. Mammoth strain of the Early Yellow Scalloped Bush. Quality excellent. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Table Queen. A small-fruited sort of great merit. See page 75. Pkt. 15 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.

FALL OR WINTER VARIETIES

Chicago, or Warted Hubbard. A selection of the largest and best rough-skinned specimens of Green Hubbard. Ideal for the home market. Vines of strong, robust growth; fruits large, heavily warted, splendid shape and dark green; flesh rich and dry. Pkt. 15 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.

Golden Hubbard. For the private garden. The fruits are of the same shape as the Green Hubbard, except that they average one-half to one-third less in size. Flesh deep gold, much richer in color than Hubbard. Cooks dry and of rich flavor. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Hubbard. Bluish green color, occasionally marked with brownish orange. Will keep from September to May. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Boston Marrow. A very popular Squash for fall or winter use. Bright orange color; flesh yellow; oval in form. A splendid keeper and excellent for pies. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Delicious. No Squash approaches it in its remarkable combination of fineness and compactness of grain, dryness, sweetness, and exceeding richness of flavor. It grows to weigh from 5 to 10 pounds, and is in its prime in mid-autumn and early winter. Pkt. 15 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.

VEGETABLE MARROW

A type of Squash that always occupies an important place in European gardens, and one which is considered superior in many respects to our American varieties of Summer Squash. Cultivation is similar, although to obtain quickest and largest yields it is often grown on spent hotbeds or in a few inches of soil placed on a manure-pile. The Marrows are gathered before they ripen—usually in about a similar stage of maturity to that of cucumbers when gathered for slicing. They are peeled, divided, and the seeds are removed; then cut into 3-inch squares, boiled until tender and served as a melting and delicious side dish with cream sauce.

Long Green Trailing. The fruits are about 20 inches in length and 3 to 4 inches in diameter. The skin is dark green, marbled with a paler shade. Pkt. 15 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.



Long White Trailing Vegetable Marrow

Long White Trailing. The fruit is a little shorter than the Long Green Trailing, but otherwise it is similar in shape. The skin is smooth and of a yellowish white. The flesh is remarkably tender. Pkt. 15 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.

Moore's Cream. An improved small-fruited variety; the fruits are oval in shape, cream-colored and of a very delicate flavor. Pkt. 15 cts., oz. 45 cts., 1/4lb. \$1.30, lb. \$3.50.

Italian Vegetable Marrow (Cocozelle Squash). A non-trailing type producing oblong fruits a foot in length and about 5 inches in diameter; handsomely mottled dark green and light. A great favorite. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.

Zucchini Squash. See Novelties, page 75. Pkt. 20 cts., oz. 65 cts., 1/4lb. \$1.75.

Mixed Vegetable Marrow. Trailing and non-trailing, all varieties in combination. Pkt. 15 cts., oz. 35 cts., 1/4lb. 90 cts., lb. \$2.50.

TURNIP

One ounce will sow about 150 feet of drill

CULTURE.—For early Turnips, sow as soon as the ground opens in spring. Rutabagas should be sown from any time in June to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre; broadcast, two to three pounds to the acre.

FINE WHITE-FLESHED TYPES

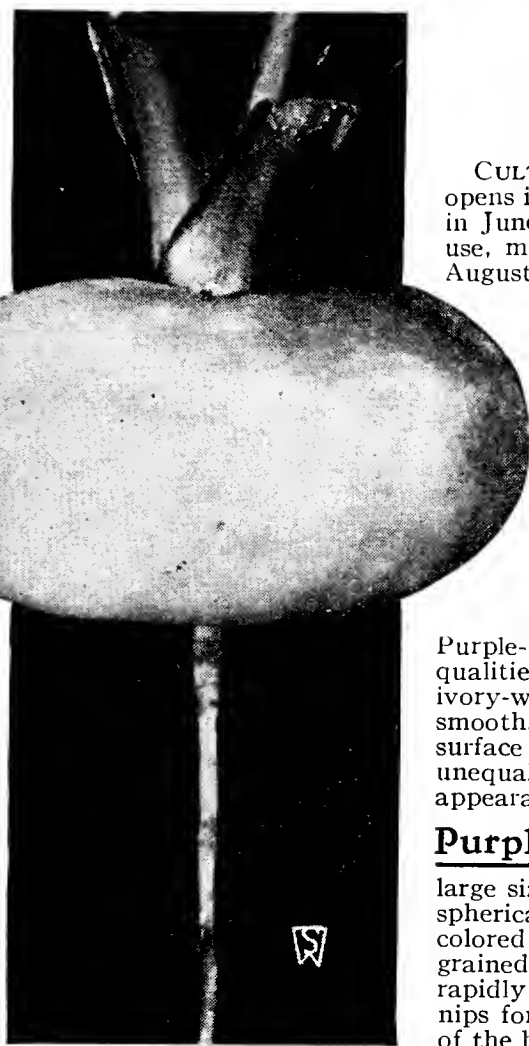
Early White Milan.

As early as the Early Purple-Top Milan and possessing all of its good qualities. The entire "bulb," inside and out, is clear ivory-white in color; the outer surface is perfectly smooth. It grows so quickly that even the outer surface of the "bulb" is quite tender. Its table qualities are unequaled, being of the most delicate flavor and tempting appearance. **Pkt. 10c., oz. 20c., 1/4lb. 55c., lb. \$1.50.**

Purple-Top White Globe. This variety may be grown to quite a large size, without developing signs of coarseness. It is of spherical shape, the skin white with the upper one-third colored reddish purple. The flesh is pure white, firm, fine-grained, and of superior flavor. A handsome looking bulb, rapidly taking the lead of all other varieties of early Turnips for market and home-gardening purposes. It is one of the best sorts to store for winter, and, in addition to its fine table qualities, it is excellent and economical for stock-feeding. **Pkt. 10 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.**



Snowball. A particularly refined table Turnip



Early White Milan Turnip. One of the earliest varieties in cultivation

Snowball. An excellent first-early, globe-shaped root; smooth, clean, and free from all coarseness. A variety that is recommended particularly to the home-gardener on account of its splendid table qualities. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.25.**

Red-Top Strap-Leaf. A very popular type, maturing in about two months from sowing. The roots are flat, marked with reddish purple on the upper portion; the flesh is pure white and of fine quality. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.25.**

Early Purple-Top Milan. An excellent smooth-skinned flat Turnip; the upper portion is tinted purple, but the flesh is pure white, delicate, and sweet. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.50.**

Long White, or Cow Horn. A quick-growing, long-shaped variety; flesh fine-grained and sweet, excellent for table use. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.50.**

YELLOW-FLESHED TYPES

Golden Ball, or Orange Jelly. This is the most distinct yellow Turnip we know. The flesh is of a very fine texture, making it one of the best table varieties. Its beautiful color and fine flesh have earned for it the synonym of "Orange Jelly," which well describes its appearance when ready for the table. The bulb is of medium size, with small tap-root, and is early in maturing. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.25.**

Yellow Aberdeen. A very hardy and productive variety of fine form and excellent quality. It has a purple top, keeps remarkably well, and is excellent both for the table and for stock. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.25.**

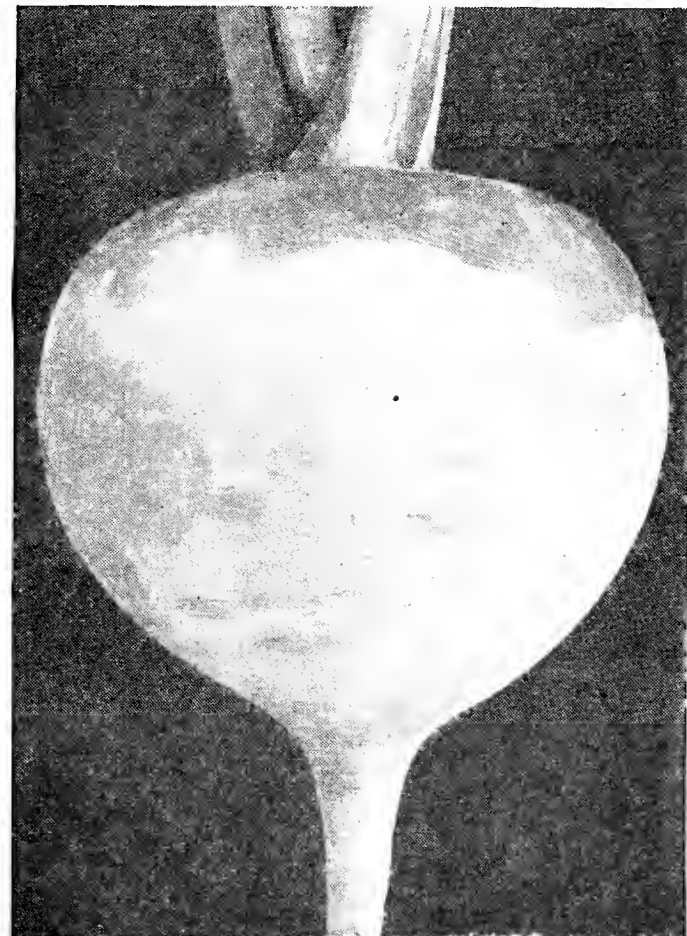
Yellow Stone. In shape a perfect globe, uniform, and of medium size; the color is pale yellow, and the quality is of the best, being very melting and buttery. A favorite variety that is to be recommended. **Pkt. 10 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.**

AN ALL-LEAF TURNIP

Seven Top. In this variety there is but little development of root. The leaves, however, are very numerous and large, and the vegetable is recommended to those who esteem "Turnip-tops," as a particularly healthful and palatable green cooked vegetable, many considering it superior to spinach. **Pkt. 10 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.**

RUTABAGA (Russian or Swedish Turnip)

S. & W. Co.'s Long Island Improved. This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.25.**



Purple-Top White Globe Turnip

TOMATO

One ounce will produce
about 1,000 plants

CULTURE.—The seed may be sown in a hotbed from about the second week in February up to the end of April, in drills 5 inches apart and $\frac{1}{2}$ inch deep. When the plants are about 2 inches high they should be transplanted about 4 inches apart, or planted in 4-inch pots, allowing a single plant to a pot. About May 15, the plants may be set out in the open ground, 3 feet apart. Water freely at the time of transplanting. Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower-pot and placing it in a sunny window. For a final seeding it is not too late to sow seed late in May, using early varieties and sowing in the open ground. The fruit is greatly improved in quality if the vines are tied to a trellis or to stakes.

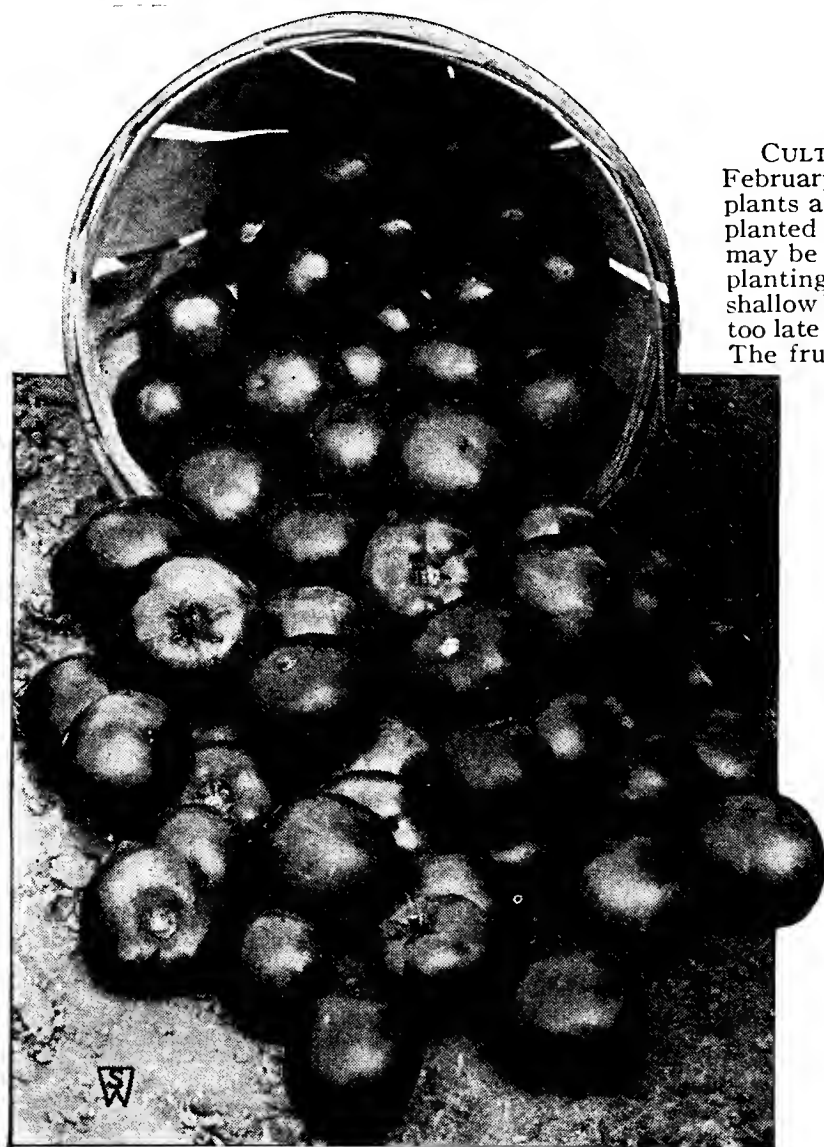
Stone. By far one of the best and most reliable of the main-crop red Tomatoes and the standard and general favorite with truckers and canners. The plant is very vigorous and the deep red fruits are produced freely; they are uniform, large, round, smooth, meaty, and possess very little core. The flavor is fine and non-acid. Stone is superior to any other main-crop Tomato for its heavy yield and high quality. We offer a specially selected stock. **Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$4.75.**

Earliana. The Earliest Red Tomato. The plants are of compact growth, with short, close-jointed branches, setting the fruit very freely in the center. The Tomato is of uniform size, averaging 3 inches in diameter, and from 2 to 2 $\frac{1}{2}$ inches in depth; solid, with few seeds, making a splendid variety for shipping. **Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$4.75.**

Ponderosa. Enormous size is the chief characteristic of this variety. Few Tomatoes equal it in this respect, and while slightly ribbed, it is very solid and luscious, making it fine for the family garden. The fruit is deep purple, oblong in form, ridged or ribbed, and with small seed-cells. They frequently weigh one pound or more each. The flavor is good, and we recommend Ponderosa for the home-garden. **Pkt. 15 cts., $\frac{1}{4}$ oz. 35 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1, $\frac{1}{4}$ lb. \$3, lb. \$10.**

Crimson Cushion or **Beefsteak.** The largest of the bright red Tomatoes. Crimson Cushion is more symmetrical in shape than Ponderosa and is much thicker through from stem to blossom end; in fact, so marked is this characteristic that it is frequently almost round. The color is brilliant scarlet-crimson, untinged with purple, and the fruit ripens up almost to the stem. The flesh is firm and "meaty," and of superb quality. **Pkt. 15 cts., $\frac{1}{4}$ oz. 30 cts., $\frac{1}{2}$ oz. 50 cts., oz. 85 cts., $\frac{1}{4}$ lb. \$2.50.**

Bonny Best. Considered among the best of the early sorts. The fruits are bright red in color, of medium size, and are produced in large quantities. **Pkt. 15c., $\frac{1}{2}$ oz. 35c., oz. 65c., $\frac{1}{4}$ lb. \$1.75, lb. \$5.50.**



Chalk's Early Jewel Tomato

CHALK'S EARLY JEWEL. About a week later than Earliana. It is of uniformly large size; of brightest red, deep fruited and solid. Bears splendid, large-sized Tomatoes throughout the season, and for quantity and quality of fruit it is easily without a rival among the best extra-earlies. **Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$4.75.**

MATCHLESS. The color is rich cardinal-red. A splendid keeper and shipper, not liable to crack in wet weather. Unsurpassed for market or for table. **Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., $\frac{1}{2}$ oz. 45 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.**

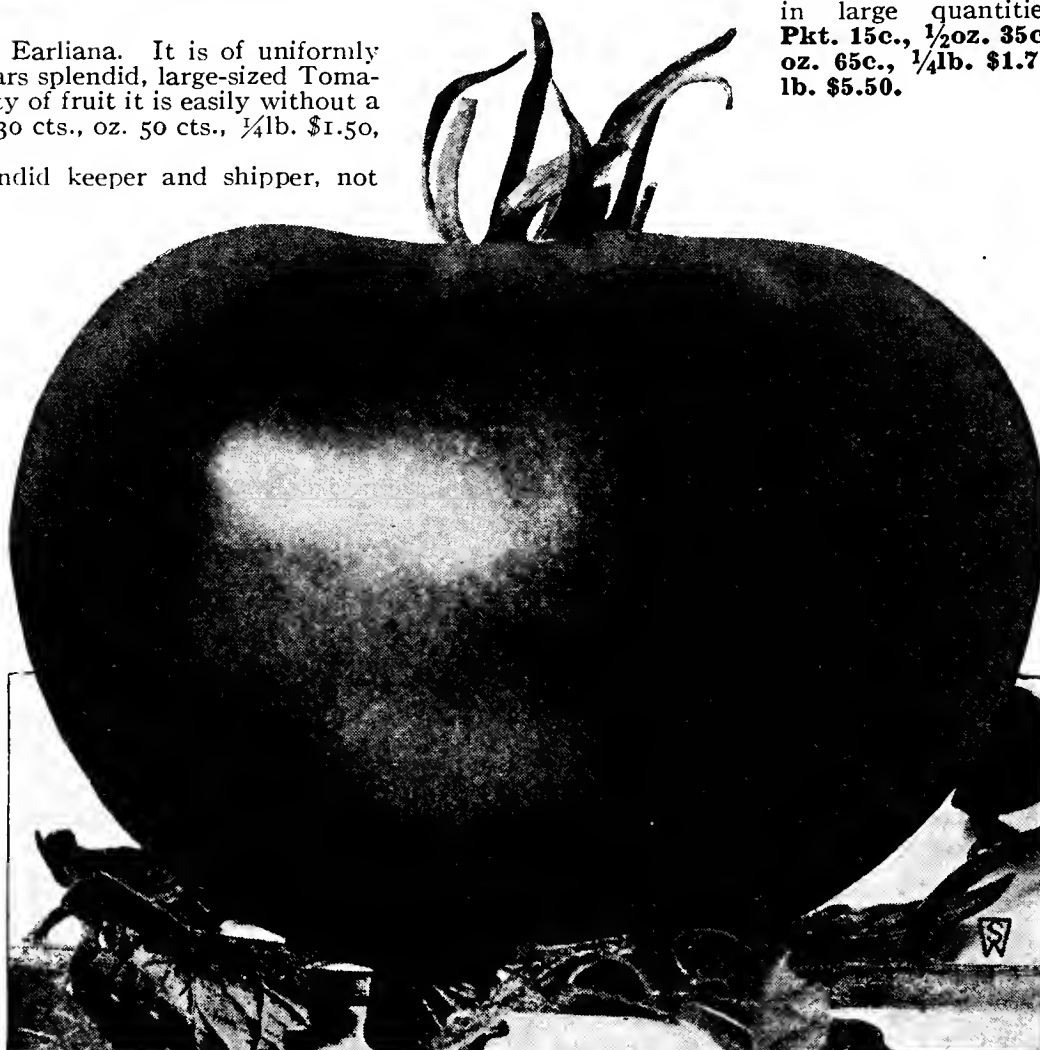
S. & W. CO.'S EXHIBITION STRAIN OF NEW GLOBE. Considered the best type of Globe Tomato. Very smooth, solid, firm, delicious, with few seeds, and ripens evenly. Color a beautiful glossy rose, tinged purple, and a splendid shipping variety. **Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., $\frac{1}{2}$ oz. 45 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.**

ESSEX WONDER. A splendid English variety, combining extreme hardiness with high-quality fruit and heavy yield. May be set out earlier and will yield fruit later in the season than other sorts. Essex Wonder has a thin skin, and its plum-like pulp, abundant juice, and freedom from tough, fibrous matter make it good eating indeed. **Pkt. 35 cts., 3 pkts. \$1.**

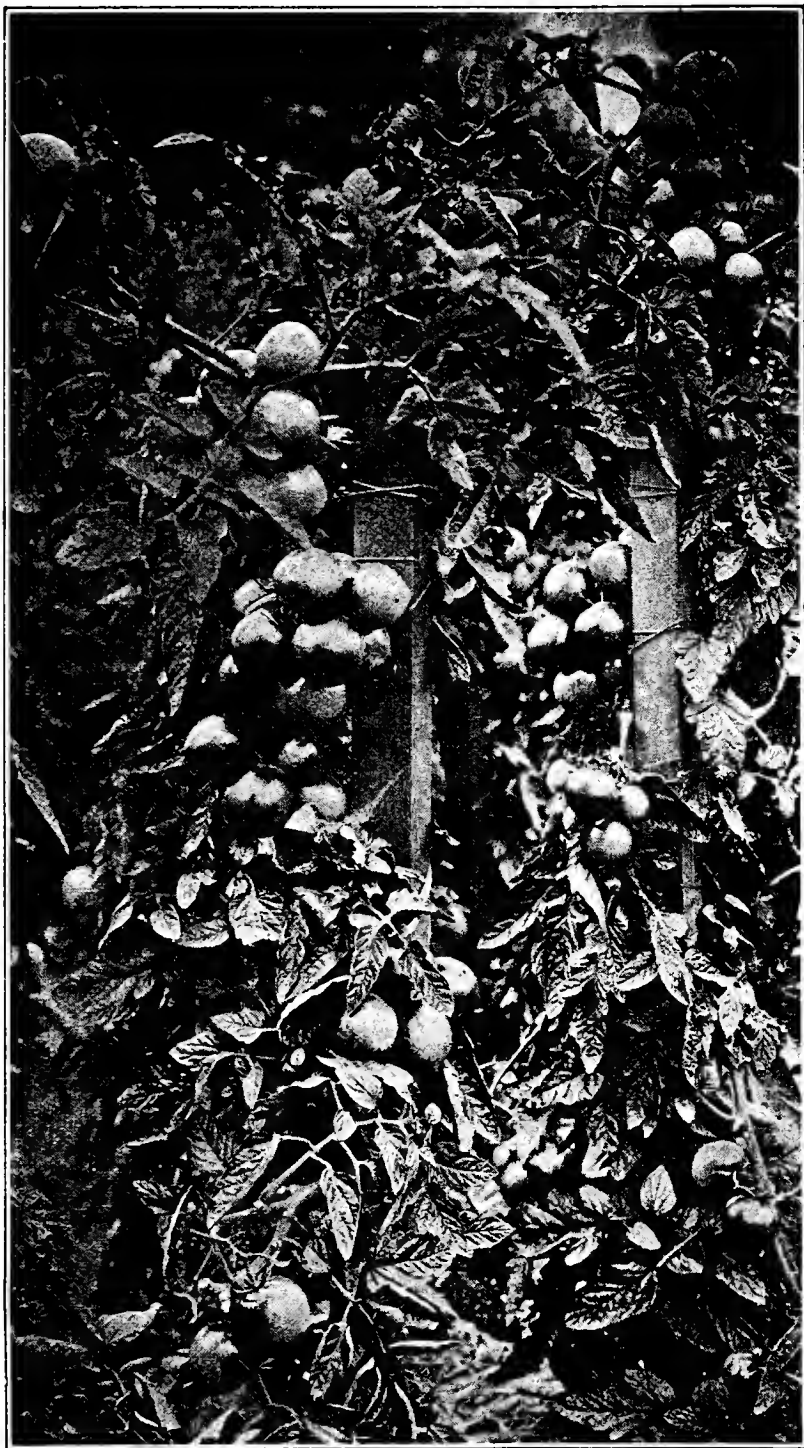
SORTS WHICH RESIST DISEASE

Marglobe. This is a large Tomato of the globe type, in color a fine red, and of delicious table quality. It fruits early and continues to yield up to frost. Its remarkable feature is its *strong, robust constitution*; it resists wilt and is immune to rust, and will therefore produce healthy fruit during long periods of wet, unfavorable weather. Marglobe is recommended for the large estate and for the home-garden; for the market-grower, the shipper of car-lots, and for the canner. Also, it performs splendidly under glass, forcing well. **Pkt. 20 cts., $\frac{1}{4}$ oz. 30 cts., $\frac{1}{2}$ oz. 50 cts., oz. 85 cts., $\frac{1}{4}$ lb. \$2.50.**

Scarlet Topper. This newer sort is described on page 75. **Pkt. 20 cts., $\frac{1}{4}$ oz. 30 cts., $\frac{1}{2}$ oz. 50 cts., oz. 90 cts., $\frac{1}{4}$ lb. \$2.75.**



Crimson Cushion or Beefsteak Tomato



John Baer Tomato. The plants have been trained to a single stem

A Remarkable Tomato

John Baer. An early, bright red Tomato of wonderful quality. But little later than Earliana, it far surpasses that variety in size and quality; it is, further, one of the heaviest-yielding sorts we know. The flesh is solid, possessing a fine flavor, free from acid. The fruits contain remarkably few seeds, and in this connection it is interesting to note that for seed purposes we find it requires over seven bushels of hand-selected, perfect fruits to produce one pound of seed. A special strain which has been grown under our personal supervision. **Pkt. 15 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75, lb. \$5.50.**

The Best Yellow Tomatoes

Golden Ponderosa. A large golden yellow Tomato of excellent quality, enormous size, and ripens early. In shape very much like the Scarlet Ponderosa. Golden Ponderosa, served sliced and accompanied by a high-class scarlet variety, similarly sliced, presents an appetizing combination difficult to resist. **Pkt. 15 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1, 1/4lb. \$3, lb. \$10.**

Golden Queen. An excellent type for slicing. Rich golden yellow skin; solid, smooth, large and early; of superior flavor. **Pkt. 15 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75, lb. \$5.**

Two Dwarf Tomatoes

Dwarf Champion. Distinct potato-like foliage and a sturdy, stocky plant; fruits medium size and purplish pink in color. **Pkt. 15 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75, lb. \$5.**

Dwarf Stone. The fruits, produced in clusters of three to five, average 4 inches in diameter and 2 1/2 inches in depth. **Pkt. 15 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$1.75, lb. \$5.**

Small-Fruiting Tomatoes

The fruits of these are much used for making fancy pickles, preserves, etc., while their size, shape, color, and flavor make them desirable additions to salads. The plants are extremely productive.

King Humbert. In shape and size, King Humbert is suggestive of a hen's egg. The fruits are bright scarlet in color and are frequently produced in enormous clusters. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.**

Yellow Cherry
Red Cherry
Red Currant
Peach

Red Pear
Yellow Pear
Red Plum
Yellow Plum

Above eight varieties: **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2**

Strawberry or Husk Tomato. The plants are of dwarf, spready growth and very productive. The fruit is yellow, about the size of a good-sized strawberry and is enclosed in a husk. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.**

Forcing Tomatoes

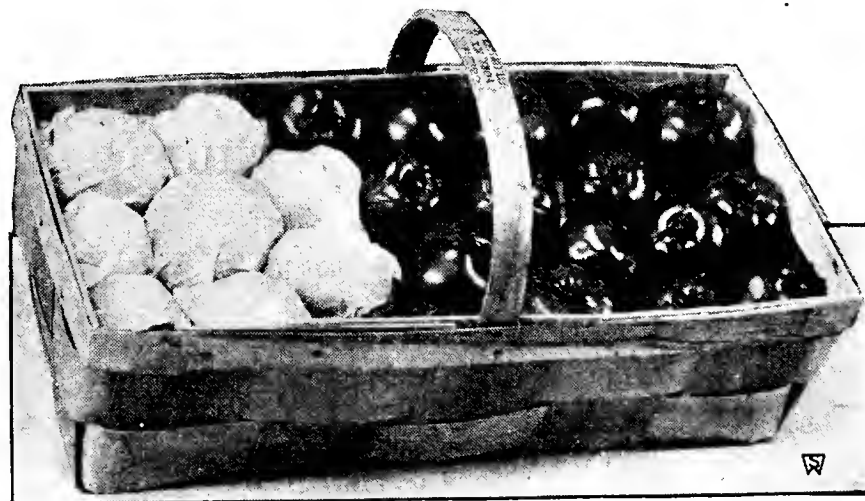
Varieties recommended for cultivation under glass, yielding during winter and spring.

S. & W. Co.'s Best of All. A variety of matchless form and color. Fruits beautiful, smooth, round and wonderfully prolific, setting very freely in bunches. Color rich scarlet-red. Equally good for outdoor culture as for forcing. **Pkt. 20 cts., 1/4oz. 50 cts., oz. \$1.50.**

Comet. Grown very largely by both private and market-gardeners. It is very short-jointed, fruiting close up to the stem. The Tomatoes are of medium size; deep scarlet. **Pkt. 15 cts., 1/4oz. 30 cts., oz. \$1.**

Stirling Castle. A very superior variety for either forcing or outdoor culture. Very heavy cropper, of medium size, smooth and round. Color a clear red. Remarkable for its free setting qualities and delicious flavor. **Pkt. 15 cts., 1/4oz. 30 cts., oz. \$1.**

Sunrise. A fruit of fine quality, medium in size, perfectly round, and produced in characteristic long clusters. It is considered by many growers to be the best indoor Tomato grown, and the best outdoor variety where a small "whole-salad" type of fruit finds favor. Sunrise has won many awards and prizes. **Pkt. 20 cts., 1/4oz. 40 cts., oz. \$1.25.**



Greenhouse-grown Tomatoes as shipped during the winter months into the New York market

Uniform containers holding 10 pounds are used, and the individual fruits are wrapped in tissue paper. A suitable Tomato weighs 4 ounces, and in shape is a deep globe, the color bright scarlet. Best of All, Comet, and Stirling Castle are varieties largely used under glass.

Vegetable Roots and Plants

Artichoke Tubers, Jerusalem. See page 76.

Asparagus Roots. For full description, culture and prices, see page 76.

Chives. Used for flavoring. We supply large, growing clumps. 25 cts. each, \$2.50 per doz.

Horse-Radish Roots. Will produce good Horse-Radish, fit for use in one season's growth. Plant the root so that the top will be 2 inches under the ground. 25 cts. per doz., \$1.50 per 100.

Mint Plants. Selected pot-plants. Used for Mint sauce and juleps. 25 cts. each, \$2.50 per doz.

Rhubarb Roots. See page 103.

Sage. Pot-plants. 25 cts. each, \$2.50 per doz., \$20 per 100.

Sweet Potato Plants. Red or Yellow variety. Ready in June. \$1 per 100, \$7.50 per 1,000.

Tarragon Plants. Used for seasoning. Strong pot-plants, 35 cts. each, \$3.50 per doz.

Thyme, English Broad-leaved. Pot-plants, 25 cts. each, \$2.50 per doz., \$20 per 100.

Vegetable Roots for Winter Forcing

Send for circular giving descriptions and cultural treatment

Asparagus. Extra-large clumps of Pedigreed Washington. \$1.50 per doz., \$10 per 100, \$90 per 1,000.

Rhubarb Roots. Extra-large clumps of Giant Crimson Victoria. Excellent for forcing in the cellar or greenhouse during the winter months. 50 cts. each, \$5 per doz., \$35 per 100.

Witloof Chicory Roots. Extra-selected roots for forcing. 75 cts. per doz., \$5 per 100, \$40 per 1,000.

Aromatic, Medicinal and Pot Herbs

Anise (<i>Pimpinella Anisum</i>). Seeds aromatic and carminative. Annual.....	Pkt. \$0 10	Oz. \$0 30
Arnica (<i>Arnica montana</i>). Valuable medicinal qualities.....	15	
Balm (<i>Melissa officinalis</i>). For culinary purposes.....	15	
Basil (<i>Ocimum basilicum</i>). Sweet. Culinary herb used for flavoring soups, etc. Annual. 10	25	
Bene (<i>Sesamum orientale</i>). The leaves used for dysentery.....	15 40	



Sicilian Fennel or Finocchio

Borage (<i>Borago officinalis</i>). Leaves used as a salad.....	1/4 lb. \$1, lb. \$3...	Pkt. \$0 15	Oz. \$0 30
Burnet (<i>Poterium Sanguisorba</i>). Used in the manufacture of cooling drinks..	10	25	
Caraway (<i>Carum Carvi</i>). Used in flavoring liquids and bread... 1/4 lb. 65c...	10	20	
Catnip (<i>Nepeta cataria</i>). Has medicinal qualities.....	15	65	
Chamomile (<i>Anthemis nobilis</i>). Has both tonic and febrifugal properties.	15		
Chives (<i>Allium Schoenoprasum</i>). Used as a substitute for onions in soups and salads. (Clumps offered above.) Perennial.....	1/2 oz. 60 cts...	15	1 00
Coriander (<i>Coriandrum sativum</i>). Seeds aromatic..... 1/4 lb. 35c., lb. \$1..		15	
Cumin (<i>Cuminum cyminum</i>). Known also as Fennel Flower. Seeds are used as an ingredient in curry powder, pickles, soups, and pastry.....	10	25	
Dill (<i>Anthem graveolens</i>). Seed used for flavoring vinegar.... 1/4 lb. 65c...	10	20	
Fennel (<i>Sicilian</i>). True variety; rounded thickened leaf-bases.. 1/4 lb. 80c...	10	30	
Hop (<i>Humulus lupulus</i>).....	15		
Horehound (<i>Marrubium vulgare</i>). Has medicinal qualities.....	15	40	
Hyssop (<i>Hyssopus officinalis</i>). Has medicinal qualities.....	15	40	
Lavender (<i>Lavandula vera</i>). True. For oil and distilled water.....	10		
Marjoram (<i>Origanum Majorana</i>). Sweet. Used in seasoning. Perennial...	15	50	
Mint. Plants only. See above.			
Rosemary (<i>Rosmarinus officinalis</i>). Yields an aromatic oil. Perennial.....	15	50	
Rue (<i>Ruta graveolens</i>). Said to have medicinal qualities.....	15	50	
Sage (<i>Salvia officinalis</i>). Common. A culinary herb. Perennial.....	15	50	
Savory (<i>Satureia hortensis</i>). Summer. Used as a culinary herb. Annual...	15	40	
Savory (<i>Satureia montana</i>). Winter. Employed in the kitchen for seasoning.	15	50	
Tansy (<i>Tanacetum vulgare</i>). For flavoring; has some medicinal value.....	15	1 00	
Tarragon. Plants only. See above.			
Thyme (<i>Thymus vulgaris</i>). English Broad-leaved. Employed for seasoning; the oil is sometimes used in perfumery. Perennial.....	15	75	
Thyme (<i>Thymus vulgaris</i>). French. A small-leaved, less hardy type.....	15	50	
Woodruff (<i>Asperula odorata</i>).....	15		
Wormwood (<i>Artemisia absinthium</i>). Has medicinal qualities.....	15	40	



Rhubarb



Mint Lavender Summer Savory Rosemary Thyme Sage Chamomile Arnica Dill Sweet Marjoram

Vegetable Seed Collections Are Economical

THEY SAVE YOUR TIME

THEY SAVE YOUR MONEY

THEY ENSURE A SEASON'S SUPPLY

When you buy a Collection of Vegetable Seeds you take advantage of our personal shopping service. Experience has taught us to select the most reliable varieties for you. The assortments which we offer on this page are economical, because they save time. And they save money, too; they cost less than they would were you to select them individually from our Catalogue because we are able to assemble them during winter, before our busy season commences. In view of the fact that we have them ready, prepared, and packed ahead of time, we cannot make changes in these Collections.

They are specially valuable for last-minute gardening. Your order by telegram or letter is in our hands only a few minutes before the Collection you select is traveling to you.

Community Garden Collection. For a plot about 25 by 25 feet or more. Consists of **twelve** large packets of seeds of the **staple** vegetables: beans, beet, carrot, cabbage, corn, lettuce, onion, parsnip, etc. The kind that an industrious person can produce in generous quantity, many of which may be stored to give a supply during winter. **75 cts., postpaid. Special quantity price on application.**

This Collection makes a most acceptable gift. We commend it to the attention of welfare organizations; also to business houses, banks, magazine publishers, etc., as a valued premium.

Dollar Collection. For a plot about 25 by 50 feet or more. We have supplied this assortment for many years, and always it has given satisfaction. It aims to provide a wide variety of vegetables at the minimum cost: **eighteen** packets—beans, beet, carrot, cucumber, parsley, peas, radish, spinach, etc. It truly supplies "A Garden Full of Vegetables for One Dollar." **\$1, postpaid.**

Suburban Collection. For a plot about 25 by 100 feet or more. This furnishes a wide variety for a small family. Healthful salads and cooking greens; lettuce, cucumber, etc., for salads; tomatoes for canning; nourishing beets, carrots, parsnips, and the like, for storage over winter. **Six** separate ounces and **twenty-four** large packets: **thirty** distinct varieties, in the same reliable quality as the merchandise listed elsewhere in this Catalogue. Selected separately these would cost \$3. **\$2.50, postpaid.**

Country Garden Collection. For a plot about 50 by 100 feet. It will provide enough delicious vegetables to take care of the normal requirements of a family of six persons. Salads, sweet corn, tender beans, and root-crops; vegetables for immediate use, for preserving, for storage over winter. **Eight** separate half-pounds, **ten** separate ounces, **twenty-two** separate packets—**forty** distinct sorts in the same reliable quality as the merchandise listed elsewhere in this Catalogue. Selected separately these would cost \$6. **\$5, postpaid.**

Children's Collection. As supplied to the Department of Education, City of New York. For a plot about 15 by 15 feet or more. Contains small packets of the seeds of the **seven** vegetables that are easiest to grow and yield very quickly: bush beans, beet, carrot, kohlrabi, lettuce, radish, Swiss chard. It is good training for every child to be encouraged to prepare his or her own garden, tend it carefully, and then to be paid for the vegetables that are contributed to the kitchen. **30 cts., postpaid; 1 doz. Collections \$2.50; 100 Collections \$20.**

NOTE. These Collections do not include potatoes or plants. In all but the Children's and Community Collections we select varieties of tomato, cabbage, etc., that are very quick to yield. You may sow them in the open ground when danger of frost has passed, and they will produce abundantly the same summer, saving the expense of purchasing plants.

All our packages bear directions for growing the Seeds contained in them—clearly written and up-to-date.



S. & W. Co.'s Seeds gave these young New Yorkers good results despite difficult gardening conditions

ROOT-CROPS FOR STOCK-FEEDING

We recommend strongly to the cattle breeder, dairy farmer, and poultry raiser, Mangels, Carrots and Rutabagas. A palatable, easily stored, easily digested, and nutritious food is yielded in large quantities per acre. They stimulate the flow of milk of high grade; their cultivation ensures the thorough cleaning of the land; and they may be stored into the winter in root-cellars or outdoor "pits" with but little trouble.

COW BEET or MANGEL-WURZEL

CULTURE.—Sow in drills during May or June, about 2 feet apart; thin out to 9 to 12 inches in the rows. The long varieties are best suited to a deep soil, and the globe sorts succeed better than the long sorts on shallow land. 6 to 8 pounds are required for one acre.

Mammoth Long Red. This is the giant among Mangels, and the variety most frequently grown. The roots are of enormous size, very uniform in shape, smooth and clean, with but small top growth. The skin is bright, rich red, and under favorable growing conditions the roots may reach a length of 3 feet. Ordinary strains of long Mangels grow so deeply into the ground and their roots branch to such an extent that their harvesting is a problem, but our Mammoth Long Red grows from one-half to two-thirds out of the ground, hence the roots may be pulled with moderate effort. The maximum tonnage per acre is produced by this variety. **Oz. 15 cts., 1/4lb. 40 cts., lb. 95 cts., 10 lbs. \$9.**

Champion Yellow Globe. Occupies the same position among Mangels as the Jersey cow does among cattle in that the roots are of only moderate size but of high quality. The skin is a rich, deep yellow; the flesh is fine, white, and solid, highly nutritious and palatable to stock. Not only does its shape lend itself to easy lifting, but two-thirds of the root grows above ground, hence it is a good variety where the soil is shallow. Its feeding value is high and it is a good keeper. **1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.**

Pedigreed Ideal. Forty years of patient breeding has so increased the sugar and dry matter in **Pedigreed Ideal Mangel** that it contains 50 per cent more than ordinary roots. It is formed like a cylinder, grows high out of the ground, and has but a single tap-root. It may thus be lifted at harvest-time with little effort, and it is suitable for growing in shallow soils. The root has a yellow skin, covering flesh which is white, crisp, and with a flavor that is exactly what stock desire: it is high in vitamins and its use promotes an increased flow of untainted milk. **1/4lb. 55 cts., lb. \$1.50, 10 lbs. \$12.50.**

Barre's Sludstrup. Long, ovoid, reddish yellow root of high quality. **1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.**

Golden Tankard. Cylindrical shape; fine yellow flesh. **1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.**

Mammoth Long Golden. A nutritious yellow kind, similar in shape to the Mammoth Long Red. **1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.**

Half-Sugar Rose. Combines the best qualities of the Mangel and the Sugar Beet. A long root with white flesh, pink skin at top and white at bottom. **1/4lb. 30 cts., lb. 85 cts., 10 lbs. \$8.**

SUGAR BEET

Klein Wanzleben. This variety is cultivated on a larger scale than any other Sugar Beet. Root is conical, straight and even, large at top and rapidly tapering. Contains a heavy percentage of saccharine matter. **Oz. 15 cts., 1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.**

RUTABAGA (Russian or Swedish Turnip)

Sow 4 pounds to the acre, in June, in drills 2 feet apart

Improved American Purple-Top. A particularly fine type of Rutabaga with reddish purple top. It is almost spherical in shape, and in consequence is easily lifted. **1/4lb. 45 cts., lb. \$1.25, 10 lbs. \$11.**

S. & W. Co.'s Long Island Improved. This special strain of Rutabaga is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, and the flesh is yellow and fine-grained. **1/4lb. 45 cts., lb. \$1.25, 10 lbs. \$11.**

CATTLE CARROT

Carrots are very valuable for all kinds of domestic animals, and are better for horses than any other root-crop. Sow 4 pounds to the acre, from the middle of May to July 1.

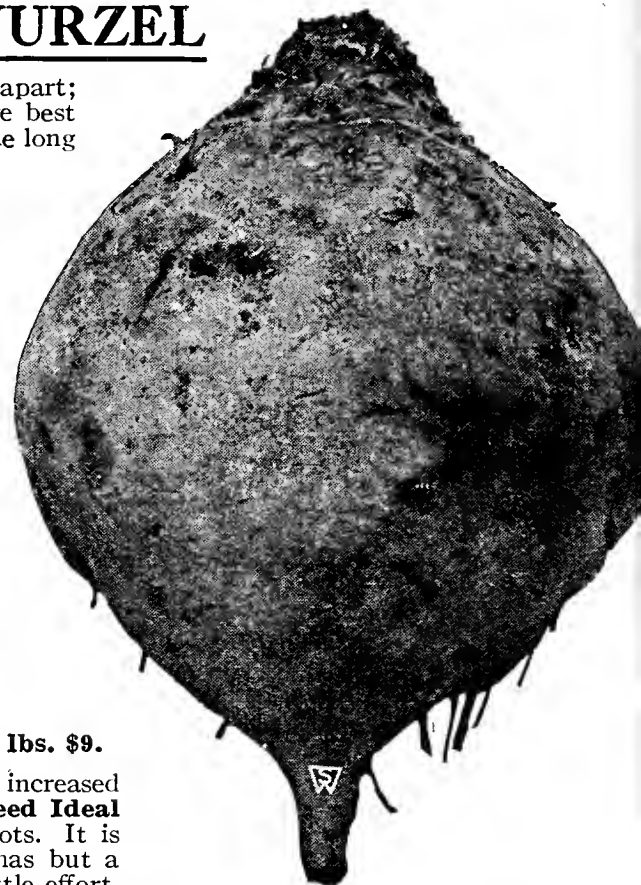
Mammoth White Belgian. The root is about 16 inches long, a quarter of which is above ground. The skin is white below and is greenish where it grows above ground. Its narrow shape enables it to be grown closely together in rows with profit, and its yield is therefore enormous. **1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.**

Danvers Half-Long. **1/4lb. 45 cts., lb. \$1.25, 10 lbs. \$11.**

Long Orange. **1/4lb. 45 cts., lb. \$1.25, 10 lbs. \$11.**



Mammoth Long Red. The Giant among Mangels



Champion Yellow Globe. A refined type, of convenient shape and high nutritive value.



Improved American Purple-Top Rutabaga

S.&W.CO.'S SELECTED STRAINS OF FIELD CORN

The various Field Corns offered on this page have had our personal inspection in their production. They are grown especially for us in territory that is **free of European Corn Borer**; our customers may therefore plant our seed with the fullest confidence. **Prices are subject to change without notice.** *For better crops treat seed with Semesan Jr.*



A field of S. & W. Co.'s New Golden Eureka Dent

SEMESAN JR. A corn-disinfectant. Protects seed against rotting, increases germination, controls blight. 4 ozs. 40 cts., lb. \$1.50, 5 lbs. \$7, 25 lbs. \$28.75.

A first-class ensilage variety. Grows 12 to 15 feet high, with mammoth stems in proportion, and an enormous growth of leaves. Under favorable conditions it will produce ears a foot or more long, yielding two of them to a plant. Jumbo Silage Corn is recommended for rich, low lands, where it yields heavy fodder. **Qt. 30 cts., postpaid, 45 cts.; pk. \$1.50, bus. \$4.25, 10-bus. lots, \$4 per bus.**

Luce's Favorite

The favorite for Long Island, eastern New York, and northern New Jersey. A Dent Corn which is as early as the Flint varieties, yet one that yields two to three ears per plant. The ears are crowded with 8 to 12 rows of broad, dented, golden kernels. The plant is a strong grower, and the leaves are broad and long, making it an excellent sort for fodder and the silo. **Qt. 25 cts., postpaid, 40 cts.; pk. \$1.35, bus. \$4, 10-bus. lots, \$3.75 per bus.**

Improved Early Horsetooth. Same as Southern Horsetooth, but better selected and earlier. Small stalks; much foliage, but rarely produces ears in northern U. S. **Qt. 25 cts., postpaid, 40 cts.; pk. \$1.25, bus. \$3.50, 10-bus. lots, \$3.25 per bus.**

Evergreen Fodder. A variety of the Sweet Corn especially valuable as green fodder. Sow broadcast, 2 bushels to the acre; in drills 3 feet apart, one bushel per acre. **Qt. 35 cts., postpaid, 50 cts.; pk. \$1.75, bus. \$6, 10-bus. lots, \$5.50 per bus.**

Longfellow Flint

This beautiful eight-rowed Flint often yields two good ears to the stalk. Ears sometimes 15 inches long. Cobs small, kernels of good size. Safe for planting as far north as Massachusetts. Our stock of seed is of the best selection and has given a yield of over 100 bushels to the acre. **Selected stock, qt. 25 cts., postpaid, 40 cts.; pk. \$1.25, bus. \$3.50, 10-bus. lots, \$3.25 per bus.**

Pop-Corn

Treatment is similar to that of field or sweet corn. Care given in curing determines the popping qualities: place the ears under cover in thin layers with free access to the air. Sow 5 pounds per acre, in hills.

White Rice. Rough kernel. Recommended as the best general-purpose variety on account of its keeping better than others. **Lb. 25 cts., postpaid, 35 cts.; 10 lbs. \$2, 100 lbs. \$15.**

White Pearl. The kernels of this variety are small and smooth. **Lb. 25c., ppd., 35c.; 10 lbs. \$2, 100 lbs. \$15.**

Crow Repellent Seed Preserver for Corn, Large Can (2-bus. size) \$1; Small Can 60 cts.

New Golden Eureka Dent (IMPROVED LEAMING)

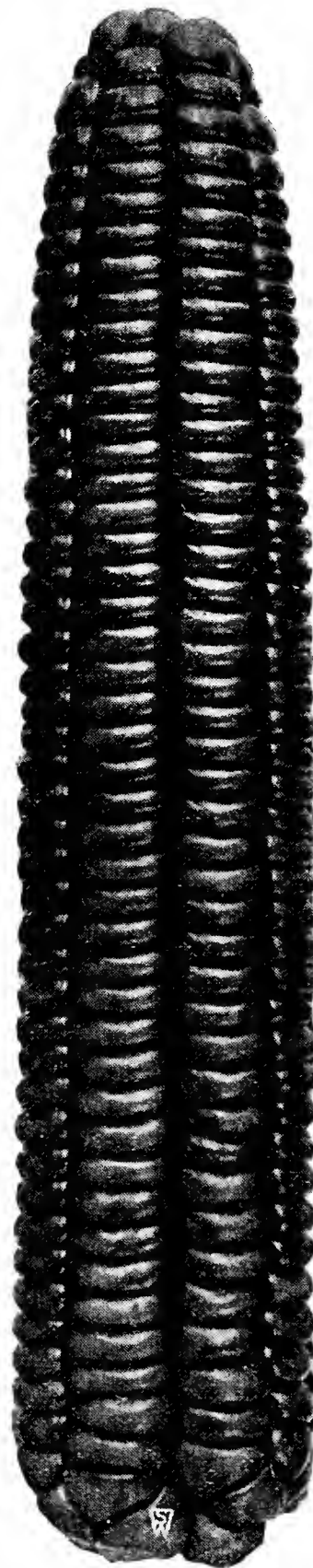
We offer a specially select stock of this fine Corn, which has been meeting with great favor. It is a tremendous yielder. We have had reports of yields of over 150 bushels of shelled Corn to the acre. The plants grow from 12 to 15 feet high, a great proportion of them bearing two ears to the stalk, the ears averaging 12 to 15 inches long, with 18 to 22 rows of deep rich yellow grains and small cob. Seventy pounds of ears frequently yield 60 pounds of shelled Corn. While not so quick to mature as a Flint Corn, where 100 days of "Corn weather" are assured, it is the best Corn to grow. A very fine variety for ensilage, and frequently produces 25 tons of good Corn silage per acre. **Qt. 25 cts., postpaid, 40 cts.; pk. \$1.35, bus. \$4, 10-bus. lots, \$3.75 per bus.**

For better crops treat seed with Semesan Jr.

Early Smoky Dent

The earliest Dent Corn in cultivation. Many growers claim that it has every variety of Corn surpassed for early maturity, large size of ears and splendid quality; ears are 8 to 10 inches long and have 12 to 16 rows of kernels on the cob. Stalks average, on good ground, 8 feet or more, and it matures generally in about 90 days from date of planting. It is thus a splendid dual-purpose Corn, valuable both for crib and silo purposes. **Qt. 25 cts., postpaid, 40 cts.; pk. \$1.35, bus. \$4, 10-bus. lots, \$3.75 per bus.**

Jumbo Silage



Longfellow Flint Corn

STUMPP & WALTER CO., NEW YORK CITY

Prices subject
to change

SEED OATS

For grain, 2½ bushels to the acre; for forage, 3 bushels, or with Canada Peas, 1 to 1½ bushels

Sold at the standard weight of 32 pounds to the bushel. Several varieties of Oats offered below weigh up to 40 pounds to the measured bushel, but all Oats are purchased and sold at the standard weight of 32 pounds to the bushel.

Storm King. An exceptionally fine grade of the Long's Tartar. Kernels are large and plump. The straw is long and stout, and does not easily lodge. Heads are from 8 to 10½ inches in length. Our grower in New Jersey reported a yield of over 100 bushels per acre. Suitable for all soils. **Pk. 75 cts., bus. (32 lbs.) \$2, 10 bus. \$17.50; 100 bus., \$1.55 per bus.**

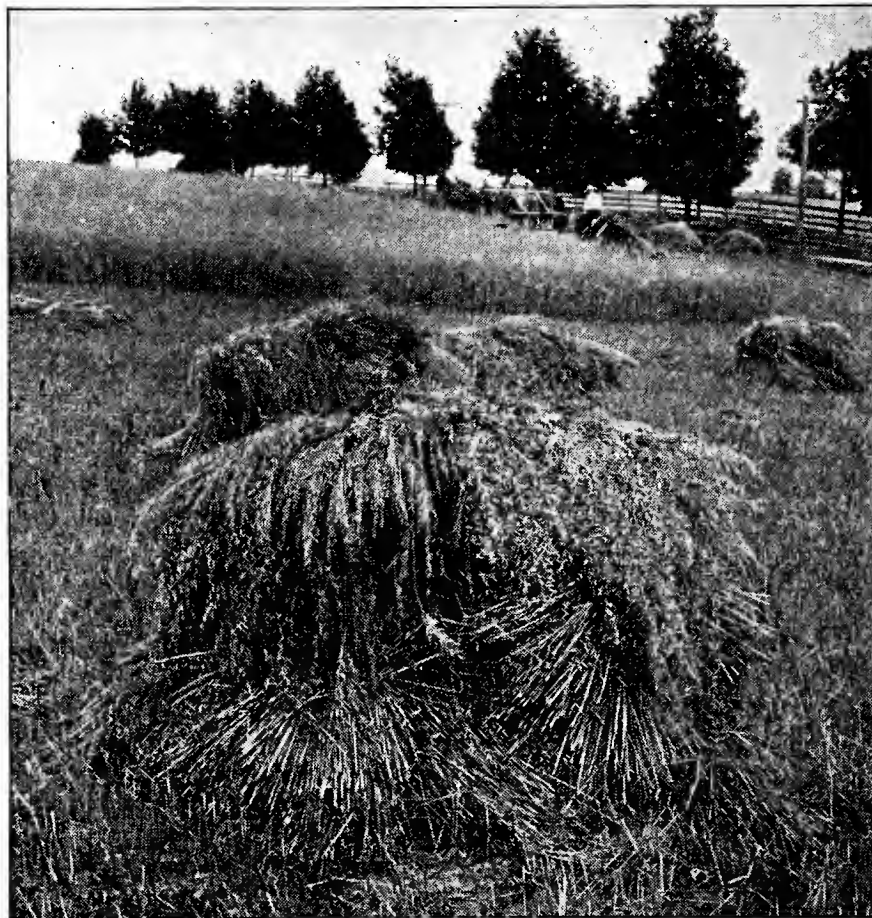
Welcome Oats. One of the heaviest, handsomest, and most productive white varieties grown. It stools heavily, with extra-strong, straight straw, standing well. Succeeds well in a wide range of climate, and under a great variety of soils and methods of culture. **Pk. 50 cts., bus. (32 lbs.) \$1.75, 10 bus. \$16; 100 bus., \$1.40 per bus.**

White Tartar. This is a western Oat which, when grown in the East in past years, has done remarkably well. Its yield was well in excess of the Swedish and Lincoln varieties. It is a heavy Oat, with long, stout straw, which stands up well without lodging. The heads are large; the grains are thick and very heavy, with a thin hull. Our seed is selected and grown especially for us. **Pk. 75 cts., bus. (32 lbs.) \$2, 10 bus. \$17.50; 100 bus., \$1.55 per bus.**

White Cross (Wisconsin Pedigree No. 19). A new Oat: extra-early, heavy yielder, with a large kernel and white instead of yellow. First premium at Wisconsin State Fair, and headed the list of all varieties in yield per acre at the Wisconsin Experiment Station. **Pk. 65 cts., bus. (32 lbs.) \$1.90, 10 bus. \$17; 100 bus., \$1.50 per bus.**



SEED PRESERVER FOR CORN insures your seeds. It prevents crows and other birds taking the seed; it protects against ground-rot and smut. It is non-poisonous and does not retard germination. Large can, enough for 2 bushels of seed corn..... \$1 00 Small can, enough for 1 bushel..... 60



Field of Storm King Oats

SPRING WHEAT

Marquis. The favorite sort in this locality, used on account of its prolific, vigorous growth and early qualities. Sow in April or May, 1½ to 2 bushels per acre broadcast or in drills. **Qt. 25c., pk. \$1, bus. (60 lbs.) \$3; 10 bus. and over, \$2.85 per bus.**

SPRING RYE

Used as a catch-crop to sow where winter grain failed. **Qt. 25 cts., pk. \$1, bus. (56 lbs.) \$3; 10 bus. and over, \$2.85 per bus.** For Winter Wheat and Rye, refer to our Fall Catalogue

ALPHA SPRING BARLEY

The experiments of the New York and New Jersey Agricultural Stations show that Alpha is the highest-yielding and most satisfactory variety introduced up to the present time. It is a two-row variety, medium tall, stiff-strawed, yielding as high as 75 bushels to the acre. The kernels are large, plump and heavy. Splendid for sowing with Oats as a mixed grain crop. Or for the dairy farmer, one bushel each of Oats, Canada Field Peas, and Alpha Barley to the acre. When used alone sow 1½ to 2 bushels to acre, May 15 to July 1. **Qt. 20c., postpaid, 30c.; pk. 85c., bus. (48 lbs.) \$2.50, 10 bus. \$22.50.**

SORGHUMS

EARLY AMBER SUGAR CANE. Sow 50 pounds per acre. Most valuable for dairy farmers; a favorite in the Northwest. **Lb. 20 cts., postpaid, 30 cts.; 10 lbs. \$1.25, 100 lbs. \$10.**

SUDAN GRASS. A quick-growing hay and pasture crop. Sow 30 pounds per acre. **Lb. 25c., postpaid, 35c.; 10 lbs. \$1.75, 100 lbs. \$12.**

FETERITA. Sow 20 pounds per acre. It gives excellent results, particularly in dry seasons. **Lb. 20 cts., postpaid, 30 cts.; 10 lbs. \$1.25, 100 lbs. \$10.**

BROOM CORN. Sow 20 pounds per acre. **Lb. 35 cts., postpaid, 45 cts.; 10 lbs. \$2.75, 100 lbs. \$20.**

Ceresan. A cereal disinfectant. Controls and combats Wheat-, Oat-, Barley-, and Rye-Smut, also Seed-borne Scab. A dust treatment, easy to apply. **Lb. 75 cts., 5 lbs. \$3, 25 lbs. \$12.50.**

KAFFIR CORN

A substitute for corn in semi-arid regions. The grain is used for poultry, for feeding horses and fattening hogs and cattle, while, if the plants are cut for hay, a great deal of forage is obtainable. Kaffir Corn is not suitable for pasture. Culture is similar to field corn; use 15 pounds of seed per acre if grown in rows and 50 pounds if broadcast. **Lb. 15 cts., postpaid, 25c.; 10 lbs. \$1, 100 lbs. \$8.**

MILO MAIZE

Used for soiling and fodder. Seed 15 pounds per acre. **Lb. 15 cts., postpaid, 25c.; 10 lbs. \$1, 100 lbs. \$8.**

MILLETS

These are recommended as catch-crops, that is, quick-growing varieties to take the place of corn, wheat, or other crops which may have failed. They are chiefly grown for feeding green, silage or hay; seed may be sown during May, June, and July.

Golden Millet. Grows 4 to 5 feet high and yields a heavy crop. Use 50 pounds of seed per acre. **Lb. 20 cts., postpaid, 30 cts.; 10 lbs. \$1.10, 100 lbs. \$9.**

Hungarian Millet. The crop is heavy, and is considered equal in value to timothy hay. Use 50 pounds of seed per acre. **Lb. 20 cts., postpaid, 30 cts.; 10 lbs. \$1.25, 100 lbs. \$10.**

Japanese, or Barnyard Millet. Yields more heavily than almost any other forage plant. Grows 8 feet high. Use 25 pounds of seed per acre. **35 lbs. to bus. Lb. 20 cts., postpaid, 30 cts.; 10 lbs. \$1.10, 100 lbs. \$9.**

STUMPP & WALTER CO.'S SELECTED SEEDS

PRICES SUBJECT TO CHANGE

VETCHES or TARES

Vetches are relished by live stock of all kinds; they are excellent for milk-production, and their fattening properties are of high order. You may feed them green, or as hay or silage. Being legumes, they are the finest possible land-renovators, and they are strongly recommended as a plow-under crop to manure the land. For best results, grow Vetches in combination with oats, wheat, or rye. The cereals support the Vetches, keeping them away from the ground, and much increasing the crop.

SPRING VETCH (*Vicia sativa*). These are highly valuable for soiling or for green-manuring. They should be sown as early as the land is dry enough to be worked without injury. When sown alone, use 150 pounds per acre broadcast, or 100 pounds in drills. If grown with oats, wheat, or rye, use $\frac{1}{2}$ bushel of the cereal and 75 lbs. of Spring Vetch. Lb. 20c., postpaid, 30c.; 10 lbs. \$1.25, 100 lbs. \$10.

WINTER VETCHES—SAND or HAIRY VETCHES (*Vicia villosa*). These are suitable for both spring and autumn seeding, and if intended to stand over the winter, they should be sown as long before winter as possible to enable them to become established firmly. If sown alone, use 100 pounds of seed to the acre, but it is best if 50 pounds of Hairy Vetch be sown with $\frac{1}{2}$ bushel of oats or other cereals, as shown in illustration at left. Lb. 35c., ppd., 45c.; 10 lbs. \$2.75, 100 lbs. \$20.

CANADA FIELD PEAS

A profitable crop in a variety of ways; if grown to maturity and threshed, a yield of from 30 to 60 bushels per acre of dried Peas may be expected. A combined crop of Peas and oats may be grown; at maturity they may be threshed at one time and separated in cleaning. They are also grown in conjunction with oats and fed green.

If sown alone, use 3 bushels of seed per acre; when sown with oats, use $1\frac{1}{2}$ bushels of Peas and 2 bushels of oats, sowing the Peas first, plowing under 4 inches deep and then drilling in the oats. **Qt. 30 cts., postpaid, 45 cts.; pk. \$1.50, bus. (60 lbs.) \$4.50, 10-bus. lots, \$4.25 per bus.**

COWPEAS

Used for improvement of soils by plowing under; also make valuable hay, when sown alone or with soy beans, during May, June or July, at the rate of two bushels to the acre or one bushel of soy beans and one of Cowpeas. 60 pounds to a bushel.

New Era. The Peas are dull lead-colored, not quite so large as Whippoorwill, but vine is somewhat stronger; earlier than other varieties. Qt. 25 cts., postpaid, 40 cts.; pk. \$1.35, bus. \$4.

Whippoorwill. An early, bunch-growing Pea; has brown-speckled seed. Qt. 25 cts., postpaid, 40 cts.; pk. \$1.35, bus. \$4.

SOY BEANS

Sown in rows $2\frac{1}{2}$ feet apart, 6 to 8 plants to the foot requiring four to eight pecks to the acre; they yield fifteen or more tons of fodder. Valuable also as a plow-under crop. 60 pounds to a bus.

Mammoth Yellow Soy Beans. Ordinarily does not produce seed in vicinity of New York but gives a wonderful yield for hay, silage, or plowing under. Qt. 25 cts., postpaid, 40 cts.; pk. \$1.25, bus. \$3.50, 10 bus. \$30.

Wilson (Black). Qt. 30 cts., postpaid, 45 cts.; pk. \$1.50, bus. \$4.50, 10-bus. lots, \$4.25 per bus.

INOCULATE THE ABOVE CROPS WITH STIMUGERM

When ordering be sure to state which crops you wish to inoculate. For vetches, field peas, cowpeas, and soy beans: $\frac{1}{2}$ -bus. size 35c., 1-bus. 60c., 5-bus. \$2.25. For clovers and alfalfa: $\frac{1}{4}$ -bus. size 35c., $\frac{1}{2}$ -bus. 60c., 1-bus. \$1, $2\frac{1}{2}$ -bus. \$2.25.

JAPANESE BUCKWHEAT

This is a superior variety, is more prolific, and yields double the weight per acre of other sorts. The grains are nearly twice as large and of fine color. This variety is always in demand, millers preferring it to all other sorts, and it makes the finest flour. Sow about the middle of June, broadcast, 1 to $1\frac{1}{2}$ bushels to the acre. 48 pounds to a bushel. **Qt. 20 cts., postpaid 35 cts.; pk. 90 cts., bus. \$2.75, 10 bus., \$2.50 per bus.**

FLAX or LINSEED

This crop is grown primarily for the seed for which there is a constant demand for pressing for oil and the making of cake and meal. Sow 75 pounds of seed per acre. **Lb. 20 cts., postpaid, 30 cts.; 10 lbs. \$1.75, 100 lbs. \$12.50.**

THOUSAND-HEADED KALE

An exceedingly valuable food for sheep and lambs. The crop may be drilled in in rows 2 feet apart, and the plants hoed to stand a foot apart, or occasionally the seeds are sown in a nursery bed and the seedlings transplanted. In the first case 8 pounds of seed per acre are used, and in the second 4 pounds will be found sufficient. **Lb. \$1.50, postpaid \$1.60.**

DWARF ESSEX RAPE

The true Dwarf Essex Rape is valuable as a fattening food for pasturing sheep in autumn and it is relished also by hogs and cattle. It is particularly adapted as a "catch-crop," for it grows best late in the season. In the northern states it can be sown at any time from May until the end of August, but in the southern states it should not be sown until September or October, for winter pasture. Its fattening properties are said to be twice as good as clover. Sow ten to twelve pounds to the acre broadcast, or four to five pounds per acre in drills 15 inches apart. The plant grows very vigorously, and feeding can commence about two months after the seed is sown. Stock are turned right into the standing crop, and the expense of harvesting is avoided. Successional seedings will maintain a continuous supply. **Lb. 30 cts., postpaid, 40 cts.; 10 lbs. \$2.50, 100 lbs. \$15.**

SUNFLOWER, MAMMOTH RUSSIAN

Highly valued as an excellent and cheap food for fowls. It is a good egg-producing food. It can be raised cheaper than corn. Four pounds of seed will plant an acre. **Lb. 35 cts., postpaid, 45 cts.; 10 lbs. \$2.75, 100 lbs. \$20.**

STUMPP & WALTER CO., NEW YORK CITY

PRICES ON GRASS AND CLOVER SEEDS ARE SUBJECT TO CHANGE

**INOCULATE THIS
SEED WITH
STIMUGERM**

CLOVERS

Of Known Purity and
Proved Vitality

**INOCULATE THIS
SEED WITH
STIMUGERM**

All Clovers possess the property of transforming the free nitrogen of the air into soluble nitrates; in addition to the crop yielded, they *all result in an improved condition of the soil.*

Medium Red Clover. This is the most popular and is regarded as the most valuable of the Clover family. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay or plowed under to add fertility to the soil. It may be sown either in the spring or fall, and if no other grasses are used, at the rate of from twenty to twenty-five pounds to the acre. **Hardy American-grown Seed. Lb. 45 cts., postpaid, 55 cts.; 10 lbs. \$3.50, 100 lbs. \$27.50.**

Mammoth Red Clover. Grows larger and lasts longer than the preceding variety, and by some is considered superior to it for forage. **American Seed. Lb. 50 cts., postpaid 60 cts.; 10 lbs. \$4, 100 lbs. \$30.**

Alsike or Swedish Clover. This is one of the hardiest varieties known; it will do better on moist land than any other variety of Clover. It is frequently sown both with Medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is finer and more leafy than Medium Clover, although it does not grow so high. **Lb. 40 cts., postpaid, 50 cts.; 10 lbs. \$3.25, 100 lbs. \$25.**

White or Dutch Clover. This variety should be included in mixtures of seed for pasture and it is the best sort for lawns; it forms a close herbage and remains green throughout the season. **Lb. 70 cts., postpaid, 80 cts.; 10 lbs. \$6.50, 100 lbs. \$55.**

Wild White Clover. Genuine Wild White Clover seed produces wiry plants that are *more permanent in character* than those originating from commercial seed: the plants are smaller and they spread very much farther than the "cultivated" type. Being more robust, they withstand clover-sickness and they thrive on soils that would be too poor to support ordinary White Clover. Wild White Clover plants *assist other Clovers and grasses growing alongside them*, and European experience shows that the inclusion of so small a quantity as *one pound of seed per acre* in mixture with other Clovers and grasses for hay-fields and pastures is followed by an increase in yield amounting in some cases to 50 per cent or more. On breaking up a pasture in which it is included, the increased benefit to the soil is very marked. **Oz. 75 cts., 1/4 lb. \$2.50, lb. \$8.**

Alfalfa or Lucerne. Alfalfa possesses a wonderful root-system, deep and strong, consequently it is a great drought-resister. Our seed is American-grown, produced in those northern sections of the country where Alfalfa has endured the extreme cold of winter in high altitudes. **Lb. 55 cts., ppd., 65 cts.; 10 lbs. \$4.50, 100 lbs. \$32.50.**

Grimm Alfalfa. There is some disagreement as to how Grimm Alfalfa obtained its hardiness, but there is no difference of opinion that it is hardy. Because of its root-system, it will grow well over a hardpan soil, and is adapted to a wetter soil than the common Alfalfa. We recommend 15 pounds of the seed, sown broadcast, to the acre, as its stooling habit requires less seed to be sown than the ordinary type. **Lb. 60 cts., postpaid, 70 cts.; 10 lbs. \$5, 100 lbs. \$42.50.**

Crimson or Scarlet Clover. This is an annual plant. It can be seeded at any time from June to October, at the rate of fifteen to twenty pounds to the acre, and makes the earliest possible spring pasture, blooming the latter part of April or May, and for feeding as hay, should be cut just before coming into full bloom. **Lb. 30 cts., postpaid, 40 cts.; 10 lbs. \$2.50, 100 lbs. \$15.**

Sweet Clover or Bokhara Clover. White Melilotus. Farmers are sowing this Clover to quite a considerable extent on light, sandy land, where other Clovers do not take well. They hope, by sowing Sweet Clover, to get a good growth to turn under to improve the land and also to inoculate the soil so that it will produce good crops of Crimson Clover and Alfalfa from seedlings of these to follow the Bokhara. For feed or forage it should be cut when quite young, for when it gets old, cattle do not relish it, and it is not of very high nutritive value. It is also largely used for sowing for bees. **Lb. 30c., postpaid, 40c.; 10 lbs. \$2.50, 100 lbs. \$15.**

Yellow Sweet Clover. A yellow-flowered counterpart of the above. **Lb. 35 cts., postpaid, 45 cts.; 10 lbs. \$2.75, 100 lbs. \$20.**

Hubam. Annual White Sweet Clover. Hubam is a variety of Bokhara or White Sweet Clover which was discovered a few years ago by the Iowa Experiment Station; it has since been improved. While ordinary Sweet Clover, and most other Clovers, do not give a profitable return until the second year from seeding, Hubam will produce a bumper crop and *attain mature growth in the first season.* It will in six months yield a growth of from 3 to 7 feet, and in some cases 8 and 9 feet, this depending upon the locality, soil, and season. Hubam is even more drought-resistant than the ordinary type, and, like it, is the greatest bee-pasture known. We offer scarified seed. **Lb. 50 cts., postpaid, 60 cts.; 10 lbs. \$4, 100 lbs. \$35.**

Sainfoin. A deep-rooting leguminous plant, which thrives on poor dry hillsides and on limestone soils, but gives splendid results also on good land. Usually sown in spring as a one-year crop, although it is perennial in some sections. Sow 50 lbs. per acre, either alone or with a nurse crop. **Lb. 45 cts., postpaid, 55 cts.; 10 lbs. \$3.75, 100 lbs. \$30.**

Melilotus indica (Annual Yellow Sour Clover). A legume that is well adapted for a plow-under crop, excellent for building up soils deficient in vegetable matter. Used extensively in the Southwest. Sow 50 lbs. per acre. **Lb. 30 cts., postpaid, 40 cts.; 10 lbs. \$2.50, 100 lbs. \$15.**

Japan Clover or Lespedeza. A pasture and hay plant much used in the Southern States, where it will give good results even on the poorest soils. Used quite largely for lawn purposes in the territory suited to it. Use 25 pounds of seed per acre. **Lb. 45 cts., postpaid, 55 cts.; 10 lbs. \$3.75, 100 lbs. \$30.**

Mixed Clovers. For pasture and hay-fields. Use 20 pounds per acre when sowing new land, but for renovating existing fields, use 10 pounds. **Lb. 60 cts., postpaid, 70 cts.; 10 lbs. \$5, 100 lbs. \$40.**



Red Clover

Why Inoculate? Seeds of all legumes will yield far better results if inoculated with **Stimugerm Jelly**, and, in addition, leave in the soil a heavy deposit of nitrogen which benefits all succeeding crops in the rotation. Even though you may see no apparent difference in the legume crop above ground, the plants produced from seed inoculated with **Stimugerm Jelly** will have many nodules on the roots. The uninoculated plant is not a soil-builder, but takes its nitrogen from the soil—defeating the very object for which you planted it. Always inoculate, and get the nodules that build up your soil fertility. **Stimugerm** for clover and alfalfa, 1/4 bus. 35 cts., 1/2 bus. 60 cts., bus. \$1, 2 1/2 bus. \$2.25. When ordering, state the clover for which **Stimugerm** is required.

NEW AND CHOICE CANNAS

DORMANT ROOTS

The wonderful size of flowers, depth of coloring, and graceful habit of plants in the modern Canna have greatly increased its usefulness to the garden-lover. It is much to be regretted that we occasionally observe mass plantings of the old Indian Shot at railroad terminals and at some of our public institutions. The modern Cannas we offer on this page are so far superior in every way that we feel certain that in a few years hence they will not only be used extensively for mass planting in beds, but will also be used in hardy borders, particularly for their foliage and color effect.

Dormant roots of Cannas should be potted in 4- or 5-inch pots or planted in shallow boxes in March or April, and kept in a warm place to start them into growth. The started plants may be planted out about May 20 to June 10 in the vicinity of New York; earlier in the South and later in the North. They should be set about 2 feet apart.

Ambassador

A very brilliant rich cherry-red variety. The flowers are large and the foliage very vigorous and massive. Rich bronze foliage and stalk. Height 4 feet.

City of Portland

This variety and Mrs. Pierre S. du Pont might easily be called the best two pink Cannas. While not as large a flower as Mrs. Pierre S. du Pont its color is a trifle lighter and is best described as one of our best salmon-pink varieties. Height 4½ feet.

Eureka

Canna hybridizers have worked patiently ever since the time of the introduction of the modern Canna, to produce a pure white one. In offering Eureka we feel that our patrons are getting the best all-round white variety for general mass planting or bedding. Height 4 feet.

King Humbert

Of superlative beauty and by far the finest of all bronze-leaved Cannas. The enormous trusses are made up of flowers that measure 6 inches across, and are a rich salmon-scarlet, distinctly and numerously flecked with deep crimson markings. It is a free bloomer, and with its rich, coppery bronze, massive foliage, it produces an effect both bold and striking. Height 5 feet.

King Midas

Large flowers of a rich pure yellow. An outstanding variety, making glorious trusses on stems as straight as an arrow. Height 4 feet.

Mrs. Pierre S. du Pont

Without a doubt this variety is the leader of all Cannas in the pink section or, for that matter, of any other color introduced up to the present time. The foliage is of truly tropical effect, being very broad and long, dark green, and offers a beautiful foil for the gigantic trusses of bloom. Color best described as watermelon-pink. Height 4 feet. **40 cts. each, \$4 per doz., \$30 per 100.**



A mass planting of Cannas for autumn color effect

Wyoming

A bronze-foliaged variety, with immense spikes of large, massive orange flowers. Height 6 feet.

The President

In color, a rich, glowing scarlet, and the immense, firm, rounded flowers, 7 inches across when open, are produced on strong, erect stalks well above the large, rich green foliage. "The President" is superior to any other red variety in quantity and quality of bloom, and the firm flowers resist drought and heat to a remarkable degree. Height 5 feet.

Wintzer's Colossal

This is considered one of the largest flowering Cannas in our list, flowers frequently measuring 8 inches in diameter. A bright scarlet; splendid bedder. Height 5 feet.

Yellow King Humbert

A sport of that most popular of all Cannas, King Humbert, producing large flowers in most beautiful shades of yellow, lightly spotted red. Has green foliage and bears five and six clusters of flowers at a time. Height 5 feet.

We offer Choice Roots of any of the above varieties, 15 cts. each, \$1.50 per doz., \$10 per 100, except where noted

GENERAL LIST OF BULBS AND ROOTS



Tuberous-Rooted Begonia

AMARYLLIS

There are several types of Amaryllis which may be planted indoors as well as outdoors for spring and summer blooming. We offer two distinct types. One, S. & W. Co.'s Giant Hybrids, is the type grown in pots and usually exhibited at our New York Flower Show. Bulbs of this type usually become dormant in October in their native habitat and may be started indoors from December onward. The other variety is known as *Lycoris squamigera*. This bulb is usually planted outdoors in the springtime for summer and autumn bloom. It is perfectly hardy and in the latitude of New York blooms in July.

S. & W. Co.'s Giant Hybrids. There has been a great improvement in this grand variety of bulbous plant this past ten years. Plant-breeders have vied with one another in producing finer and larger blooms, as well as purer colors. Our strain of bulbs produces vigorous stems with from four to six blooms of the most perfect form, ranging in color from pure white grounds with varied markings of rose, red, and crimson, to the richest self colors, such as scarlet, crimson, bright red, cherry, and almost maroon. The bulbs should be planted in 6-inch pots in good garden loam enriched with a handful of bone fertilizer. Cover bulb up as far as the neck; water sparingly until flower-stalk appears, then water more freely as plant advances in growth.

Large bulbs, 40 cts. each, \$4 per doz., \$30 per 100.

Jumbo bulbs, 50 cts. each, \$5 per doz., \$40 per 100.

***Lycoris squamigera*.** (Amaryllis Halli.) One of the most graceful and charming varieties which originated in Japan. It is perfectly hardy and produces attractive green foliage in early spring, which later dies away. About two months later the flower-stalk appears, growing about 2 feet high and developing an umbel of large, lily-shaped, delicate pink flowers, shaded with clear blue. **\$1.50 each, \$15 per doz.**

CANNA ROOTS. See page 117

CALLAS (Richardia)

The variety offered below succeeds best when treated in the same manner as gladioli, tuberose and other summer-flowering bulbs. They should be planted in the open border in a dormant condition when danger from frost is over in spring, and will then flower during the summer months. When the tops are killed by frost in the autumn, dig and store through the winter as you would potatoes.

Golden Yellow (*Richardia Elliottiana*). This is the best of the Yellow Callas, its flowers being as large as the popular white winter-flowering variety, and of a rich, lustrous golden yellow of velvety texture; the foliage is dark green, with a number of translucent creamy white spots, which add much to its beauty. **Strong bulbs, 50 cts. each, \$5 per doz., \$40 per 100.**

BEGONIAS TUBEROUS-ROOTED

CULTURE.—A popular method of culture adopted by most amateurs is to provide a pan or box, and cover bottom surface to the depth of say one inch or two with sphagnum moss, placing the bulb immediately on top and then covering with still another layer of sphagnum moss. They should be kept moist and moderately warm. Plant in pots in a light but finely sifted soil, about one inch below the surface, and water cautiously until plant has shown considerable growth, then increase the amount. Good drainage is essential. A finely developed plant might consist of three bulbs planted in a 7-inch pot. Splendid for shady borders or beds. Plant bulbs outdoors 8 inches apart, as soon as weather is warm, in latitude of New York about the middle of May.

ERECT TYPE (Large Bulbs, 1½ inches and up)

Single-Flowering Varieties

This class of the Tuberous-rooted Begonias is largely used for beds or border-planting.

White Pink Scarlet Crimson Yellow Orange Salmon
30 cts. each, \$3 per doz., \$20 per 100

Select mixture of all sorts, equal proportions, 25 cts. each,
\$2.50 per doz., \$17.50 per 100

Double-Flowering Varieties

White Pink Scarlet Crimson Yellow Orange Salmon
30 cts. each, \$3 per doz., \$20 per 100

Select mixture of all sorts, equal proportions, 25 cts. each,
\$2.50 per doz., \$17.50 per 100

HANGING-BASKET TYPE

This type of Begonia is splendid for vases, hanging-baskets, porch- or window-boxes.

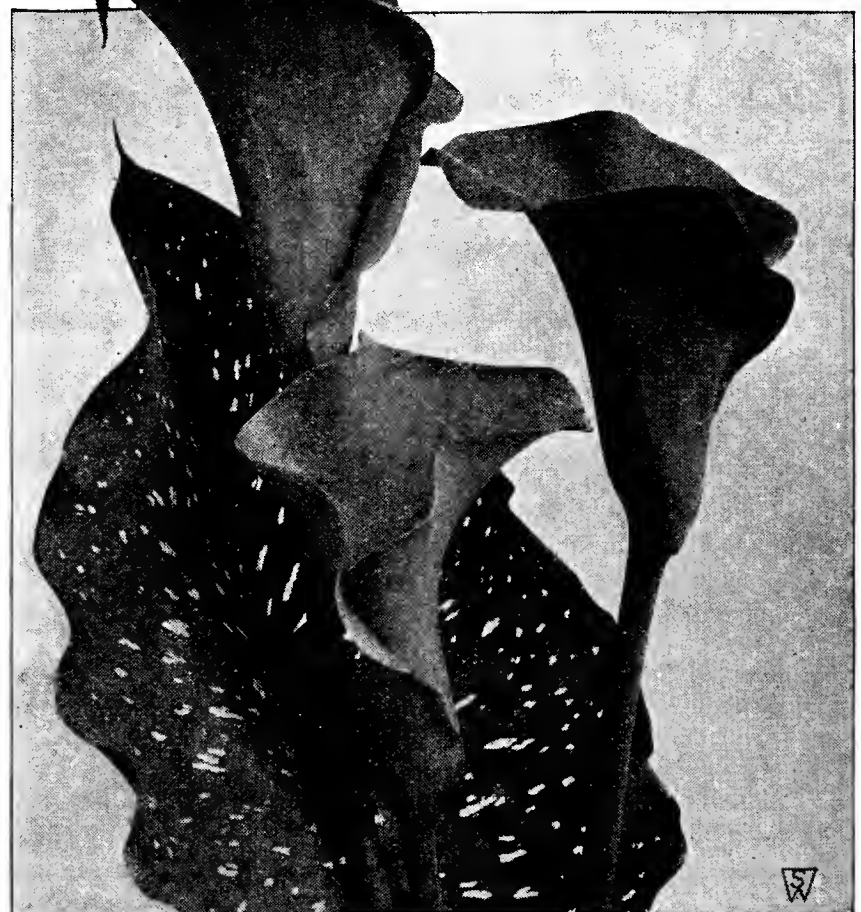
Pink

Scarlet

White

Yellow

30 cts. each, \$3 per doz.,
\$20 per 100



Golden Yellow Callas

FANCY-LEAVED CALADIUMS

Few, if any, of the summer foliage plants equal the Fancy-leaved Caladiums in their rich and gorgeous, yet soft, coloring. All the varieties are of marvelous beauty for the furnishing of the conservatory during the summer months, or even for outdoor bedding in shady or semi-shady positions. Bulbs do best if started in pots, planting one bulb to a 6-inch pot. Plant and handle similar to indoor culture of tuberous-rooted begonias.

	Each	Doz.	100
Twelve Extra-Choice Named Varieties...	\$0 50	\$5 00	\$35 00
Extra-Choice Mixture of Named Varieties.	40	4 00	25 00

CALADIUM ESCULENTUM

Elephant's Ear

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. Very frequently used as border plants about suburban residences, where their large, rich green leaves afford an excellent embellishment when contrasted with the colors of the dwellings. Leaves often measure 3 to 4 feet long and 2½ feet wide. Plant outdoors about June 1.

	Each	Doz.	100
Mammoth-size Bulbs.....	\$0 20	\$2 00	\$15 00
Jumbo-size Bulbs	35	3 50	25 00

CINNAMON VINE (*Dioscorea Batatas*)

A beautiful, rapid-growing summer climber, with bright green, glossy foliage, and spikes of deliciously cinnamon-scented, white flowers. It is perfectly hardy, the stem dying down in winter, but growing with great rapidity in the spring, so as to cover any trellis or arbor very early in the season. **Selected roots, 15 cts. each, \$1.25 per doz., \$9 per 100.**

DIELYTRA SPECTABILIS (Dicentra)

Bleeding Heart or Seal Flower

An old-fashioned favorite; its long racemes of graceful heart-shaped pink flowers are always attractive. It is used largely for forcing, but is also excellent for the garden border and especially valuable for planting in the shade. **Strong clumps, 50 cts. each, \$5 per doz., \$40 per 100.**

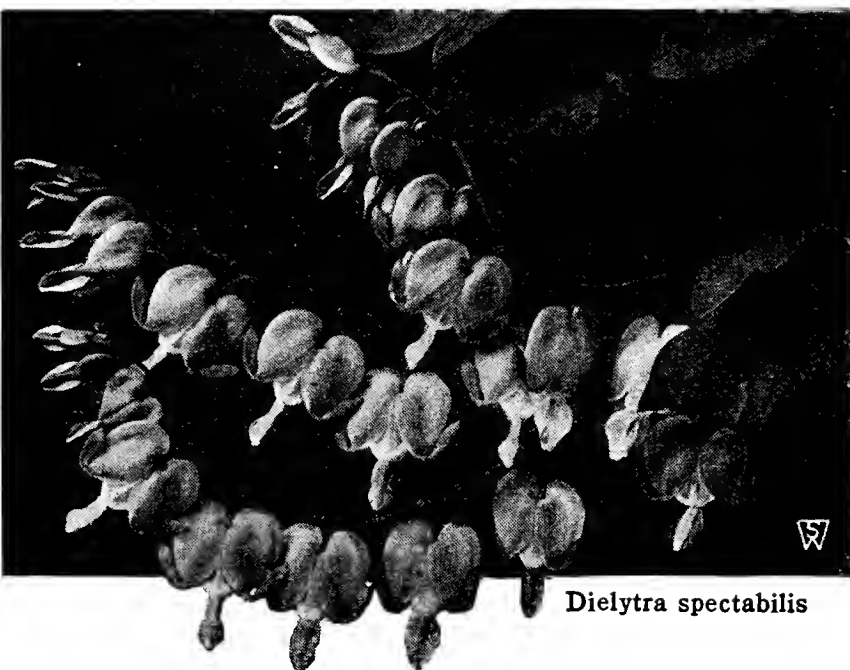
GLOXINIAS

This is, perhaps, one of the handsomest of summer-blooming, tuberous-rooted plants and should be grown more by the amateur than it has been. As a pot-plant for the window-garden it is grand. The main points to observe are, proper care in watering, good drainage and properly mixed soil. The cultural directions given for begonias might also be followed for starting and growing Gloxinias. One bulb is usually used for a 4-inch pot.

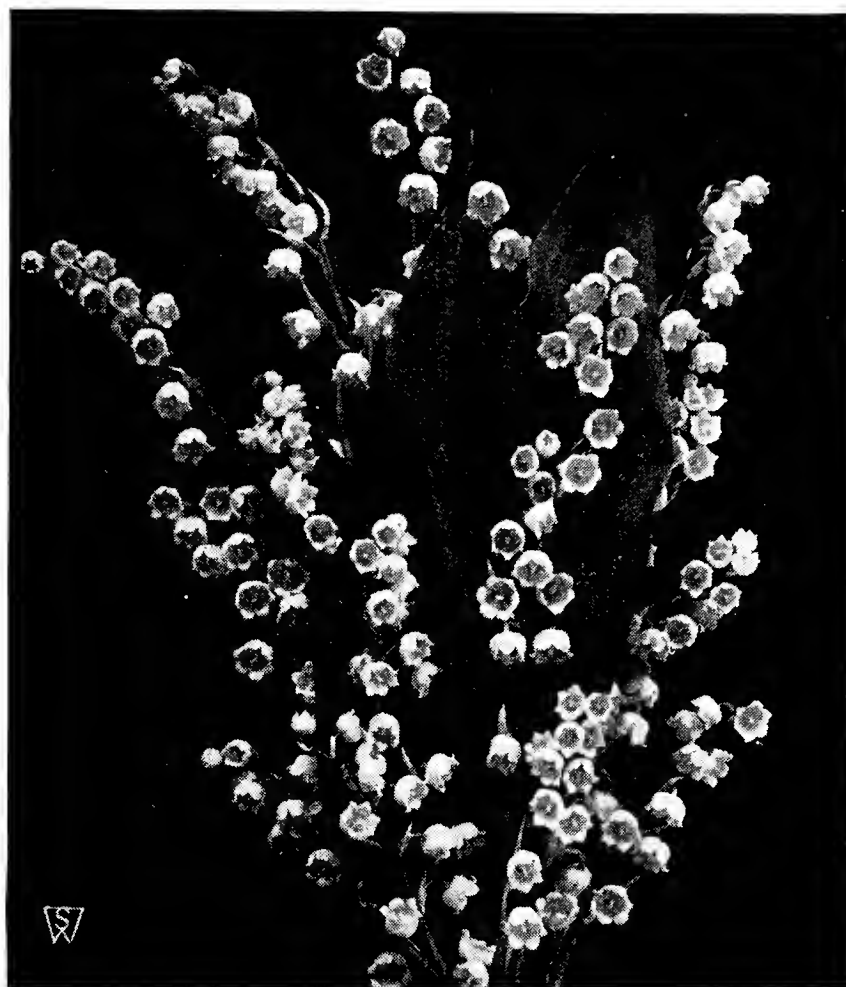
S. & W. Co.'s Mixture. A mixture of crimson, scarlet, pink, violet, and white. **40 cts. each, \$4 per doz., \$30 per 100.**

HYACINTHUS CANDICANS

Luxuriant, free-growing summer-flowering plant; spreads 2 to 3 feet, throwing up great, tall spikes, 4 to 5 feet in height, each bearing twenty to thirty large, white, bell-shaped flowers. **Choice bulbs, 15 cts. each, \$1.50 per doz., \$10 per 100.**



Dielytra spectabilis



Lily-of-the-Valley

ISMENE CALATHINA

Pancratium Lily; Peruvian Daffodil

A choice flowering bulb, blooming profusely during the summer. Clusters of large, strikingly fragrant, pearly white flowers. Bulbs should be kept warm and dry and planted out the middle of May; they will commence flowering in July. Before freezing weather sets in, they should be lifted and kept in a warm, dry place. **Large bulbs, 25 cts. each, \$2.50 per doz., \$15 per 100.**

LILY-OF-THE-VALLEY PIPS (For Outdoor Planting)

In the past, many garden enthusiasts have planted clumps of Lily-of-the-Valley in sheltered locations in their gardens. On account of the ruling of the Federal Horticultural Board, these clumps, before leaving Europe, must have all soil removed from their roots. Our experience in the past is that clumps received with the soil removed are not satisfactory for **outdoor** planting. The best way to get a good Lily-of-the-Valley bed, and the method used by professional gardeners, is to plant **two-year-old** pips 4 inches apart. This method will produce a better bed than by using clumps. We offer pips of **smaller size** than those used for growing Lily-of-the-Valley **indoors** for this purpose and at attractive prices.

10 pips 60 cts., 25 pips \$1.25, 100 pips \$4, 1,000 pips \$35

For Greenhouse Growing

In judging the price of our Lily-of-the-Valley, please remember that the best is the cheapest. Our Valley is positively among the best. Is bought at open prices, with instructions for a selection of the best-developed pips. Our long experience and large importations have commanded this extra selection. For **growing indoors** these pips are the best that can be planted.

25 pips \$2, 100 pips \$7, 250 pips \$17, 500 pips \$32.50, 1,000 pips \$60

MADEIRA VINE (Climbing Mignonette)

A beautiful and popular vine, covering a large space in a short time. Fleshy heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delightful fragrance. Protect with litter in this latitude. **15 cts. each, \$1.50 per doz., \$10 per 100.**

HARDY LILIES

The Lilies offered below are among the best for spring planting. For a more extensive list we refer to our Fall Bulb Catalogue, issued in August. Our list is confined to those varieties we know from actual trials do best, and the following varieties will prove satisfactory if planted by June 1.

Lilies do best in the hardy border or among shrubbery, for the reason that the flowering stems bear masses of roots immediately below the ground surface, and the shady situation helps these roots to better feed the plant; when through flowering, these roots help in the rehabilitation of the bulbs for another season. Any good garden soil with good drainage will do. In planting, cover bulbs at least twice their diameter except several varieties for which we recommend shallow planting, and, if possible, spread 1 inch of sharp builders' sand under the base, so that after the bulbs make basal roots the sand will provide drainage if water-logged in winter. When hard frost sets in, cover with 4 to 6 inches of leaves or litter which should be removed when spring sets in.

Lilium auratum

Golden-rayed Lily of Japan

The flowers are pure white, thickly studded with crimson spots, while through the center of each petal runs a clear golden band. Fully expanded, the flowers measure nearly a foot across, are produced abundantly from July to September, and possess a most delicious fragrance. 3 to 5 feet.

	Each	Doz.	100
9-in. to 11-in. bulbs.....	\$0 30	\$3 00	\$20 00
11-in. to 13-in. bulbs.....	45	4 50	35 00

Lilium speciosum magnificum

Oriental Orchids

Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bordered with deep pinkish crimson. A much superior variety to the Roseum, Rubrum or Melpomene of the Speciosum type. For the border, among hardy plants or naturalized among rhododendrons, this is an equal favorite with the handsome *Lilium auratum* offered above. Splendid for pot culture as well. Blooms outside during August.

	Each	Doz.	100
9-in. to 11-in. bulbs.....	\$0 30	\$3 00	\$20 00
11-in. to 13-in. bulbs.....	45	4 50	35 00

Lilium speciosum album

The White Speciosum, which is usually grown with Magnificum and Auratum, is a very dainty Lily. It flowers outside in the border or among rhododendrons at the same time as Auratum and Magnificum, and is one of the most extensively cultivated varieties.

	Each	Doz.	100
8-in. to 9-in. bulbs.....	\$0 30	\$3 00	\$20 00
9-in. to 11-in. bulbs.....	45	4 50	35 00

Lilium Henryi

Henry's Lily; Yellow Speciosum

A very lovely flower of the Speciosum type. It grows 8 to 10 feet high or more in favorable places, and likes to root among low shrubs, sending its tall stems up into the sunlight where its bright apricot-yellow flowers may show at their best. Ordinary soil suits it, and moderately deep planting. Blooms in July and August. **Strong bulbs, 50 cts. each, \$5 per doz., \$35 per 100.**

Lilium regale

A regal beauty. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, blending out part way up the trumpet. The fragrance is delightful, similar to the jasmine. A splendid hardy Lily for the garden, flowering about July 1. The easiest Lily to grow.

	Each	Doz.	100
First-size bulbs, 6 to 7 in. circum.....	\$0 20	\$2 00	\$15 00
Mammoth bulbs, 7 to 8 in. circum.....	35	3 50	25 00
Jumbo bulbs, 8 to 9 in. circum.....	50	5 00	40 00
Monster bulbs, 9 to 10 in. circum.....	75	7 50	60 00

NOTE: We carry a complete list of Lilies in cold storage for planting in your greenhouse in the summer and autumn for winter-blooming. Varieties and prices sent on request.



Lilium auratum (Golden-rayed Lily of Japan)

OTHER HARDY LILIES

Canadense. The red Meadow Lily of fields and roadsides. In July, its tall stems, 3 to 8 feet high, bear great sprays of nodding, bell-like, bright orange-crimson flowers dotted with maroon. It is stem-rooting, likes moist, well-drained ground. Plant 5 inches deep. **35 cts. each, \$3.50 per doz., \$25 per 100.**

Hanson. Hanson's Lily. Delicately fragrant, nodding flowers of pale yellow-orange, with thick, waxen, recurved petals, in clusters above broad whorls of leaves on stems 2 to 4 feet high. Likes shade, moist soil and blooms very early in June. Plant moderately deep. **60 cts. each, \$6 per doz., \$45 per 100.**

Martagon. The Purple Lily. Small, turban-shaped flowers of dull purple, in great pyramidal sprays on a strong stem 2 to 5 feet high. Blooms in June. Likes cool, damp places with much shade. Cover bulb with 3 inches of soil. **40 cts. each, \$4 per doz., \$30 per 100.**

Pardalinum. The California Leopard Lily. Tall and striking, with rich orange-red flowers having back-flared petals, and strongly marked by purple spots ringed lighter. It blooms in June and July. Plant 5 inches deep. **40 cts. each, \$4 per doz., \$30 per 100.**

Superbum. The Turk's-Cap Lily. Considered the handsomest American Lily. It grows 5 to 8 feet high, with an immense, pyramidal cluster of brilliant orange-red, turban-shaped flowers, yellowish inside and spotted brown. Plant 6 inches deep. **35 cts. each, \$3.50 per doz., \$25 per 100.**

Tenuifolium. Coral Lily. A dwarf, very graceful Lily, with thread-like leaves and clusters of nodding, tiny, bell-like, recurved flowers of brilliant coral-red in June. Plant 6 inches deep. **25 cts. each, \$2.50 per doz., \$20 per 100.**

Tigrinum. The Tiger Lily is well known, with its showy, spotted red-orange flowers in wayside gardens in August and later. Very easy to grow, thriving in full sun in any soil. Cover bulb with 3 inches of soil. **30 cts. each, \$3 per doz., \$20 per 100.**

Tigrinum flore-pleno. The double Tiger Lily is even showier and more handsome in a way than the original. It blooms a little later and requires the same treatment. **35 cts. each, \$3.50 per doz., \$25 per 100.**

①

THREE FINE . . . SUMMER-BLOOMING LILIES

*The following three varieties of Liliums are excellent
for spring planting:*

Lilium regale. Gorgeous new Lily from the wilds of Tibet and western China.

Lilium auratum. The Golden-Banded Lily of Japan.

Lilium speciosum magnificum. The pink Lily from Japan, sometimes called the "Oriental Orchid."



②

	Each	Doz.	100
1. Lilium regale. 6-7 in. in circum.	\$0.20	\$2.00	\$15.00
2. Lilium speciosum magnificum. 9-11 in. in circum.	.30	3.00	20.00
3. Lilium auratum. 9-11 in. in circum.	.30	3.00	20.00

③





The illustration above features four new Japanese Irises — White Giant, Blue Giant, Violet Giant, and Mahogany Giant

Four Fine New Japanese Irises

VIOLET GIANT. Rich violet, shading to rose. Flower of gigantic size, semi-double. A wonderful grower, distinct in color from any existing varieties. The flowers frequently measure 27 inches in circumference.

BLUE GIANT. We consider this the finest Japanese Iris of its color—a beautiful bright blue. The flowers measure 25 inches in circumference.

WHITE GIANT. The finest white Japanese Iris in existence, surpassing the new Betty F. Holmes and the older Gold Bound which, heretofore, have been considered the leaders. A strong, vigorous grower, pure white, with yellow markings on the standards. In size it is equal to Violet Giant and is a fitting companion variety.

MAHOGANY GIANT. This Iris is a deeper shade of maroon-violet than the standard variety, Mahogany, and larger in size.

Any of the above Giant Varieties, \$1.50 each, \$15 per doz.

Special Offer Collection: One Each of the 4 Varieties, \$5

STANDARD VARIETIES OF JAPANESE IRIS

AZURE. Double. Immense flower of mauve-blue with darker halo surrounding the yellow blotch at base of petals. 50 cts. each, \$5 per doz.

CHOSEIDAN. Double-flowered type of ruby-crimson. There are small yellow blotches surrounded by white halos which radiate in broad lines. 50 cts. each, \$5 per doz.

GOLD BOUND. For all general purposes the best white variety. Not as large as White Giant but a strong-growing kind and one of the best. 50 cts. each, \$5 per doz.

GRACE SPERLING. Single. Hortense-violet; petaloid stigmas light Hortense-violet. Very early. 50 cts. each, \$5 per doz.

KAMATA. Sky-blue, veined white. 50 cts. each, \$5 per doz.

LA FAVORITE. Large, double, wavy flowers, white veined blue, purple center. 50 cts. each, \$5 per doz.

LAVENDER QUEEN. Very large, single variety of soft even lavender color. 60 cts. each, \$6 per doz.

MAHOGANY. An attractive red, shaded maroon. Flowers are not as large as some other varieties, but the color of this double-flowered form makes it a favorite. 60 cts. each, \$6 per doz.

MRS. GEORGE STUMPP. Pure white, except for a cast of blue. A single-flowered type. 50 cts. each, \$5 per doz.

PAINTED LADY. Single. White, center blotched light phlox-purple. The tufts are also white, edged with the same phlox-purple shade. 50 cts. each, \$5 per doz.

PYRAMID. A tall-growing variety. Dark violet-purple in color, with a bright yellow blotch. A double-flowered form of large size. 60 cts. each, \$6 per doz.

RED RIDING HOOD. Single. Fine amaranth, veined and suffused white. 50 cts. each, \$5 per doz.

ROSE-ANNA. Ivory-white, with heavy ruby-red veins, and conspicuous yellow blotch; stigmas dark plum. A double-flowered type. 60 cts. each, \$6 per doz.

TEMPLETON. Double, light violet, mottled reddish pink and white. 60 cts. each, \$6 per doz.

VIOLET BEAUTY. Deep violet. An outstanding variety. The flowers are single in form but very large and very attractive. 60 cts. each, \$6 per doz.

GERMAN IRIS (*Iris germanica*)

In presenting to our patrons a new revised list of these Irises, we have endeavored to offer only the most outstanding varieties in distinctive and attractive color shades. These new types are as superior to the older varieties as the modern canna is to the original "Indian Shot." Some, by reason of scarcity, are high in price, but all are greatly to be desired and their sturdiness of growth, free-flowering habit, and rich, brilliant colors promise to make them a feature in every garden.

AFTERGLOW. A soft blending of lavender-gray and pink, shading to buff in the falls. It is much easier, and perhaps more correct, to describe this variety just as "beautiful," without attempting to enumerate the shades of color that contribute to its beauty. 40 cts. each, \$4 per doz.

ALCAZAR. Huge size, stately appearance, and a delightful fragrance are enough to class this as an outstanding Iris. The standards are soft violet-orchid, with the falls rich crimson-purple, and white throat marked bronze. A beard of dazzling orange and the glistening silkiness of the entire flower caused this variety to be classed by the Cornell Test-Gardens as one of the best ten varieties. 50 cts. each, \$5 per doz.

AMBASSADEUR. Judged the most popular Iris in the world by vote of the American Iris Society. Its coloring is rich throughout, with a charming variety of tints and shades that makes description difficult. The falls are rosy lilac and the standards rich reddish purple. Placed where the rays of the sun shine through it, it appears to be rich ruby-red. \$1 each, \$10 per doz.

ASIA. An aristocrat among Irises. Tall and stately, often growing well over 4 feet in height. The standards are pale silvery lavender, with golden base, with the falls rosy lavender, margined lighter; bright golden yellow beard. A flower of great elegance, both dainty and rich. \$1 each, \$10 per doz.

BALLERINE. This is a favorite among the light blue varieties. The large flowers are produced freely, and are of dainty coloring. They appear quite late, are very fragrant, and are borne on strong, 4-foot stems. \$1 each, \$10 per doz.

BRUNO. Among the finest of Irises, this variety is a leader. Its qualities are such that it is regarded as the parent of varieties of the future. The flowers, which are large and of fine form, are remarkable for their heavy, plush-like texture which brings out the beauty of the exquisite coloring to the highest degree. The standards are of heliotrope, flushed bronze, with falls of rich purple, shaded violet, veined with white in the throat. \$2 each, \$20 per doz.

DOMINION. A forerunner of a new race of Irises. It is the original variety of the class now known as "Dominion Iris," which is characterized by the heavy, plush-like texture of its blooms and their rich, deep coloring. Dominion is the first and, by many, is considered the best of this race. The standards are of steel-blue and the falls deep rich indigo-purple. \$2 each, \$20 per doz.

DREAM. Soft, clear, uniform pink. Daintiness and charm find a home with this exquisitely pretty Iris. Truly one of our most attractive varieties, and loved by all Iris enthusiasts. 50 cts. each, \$5 per doz.

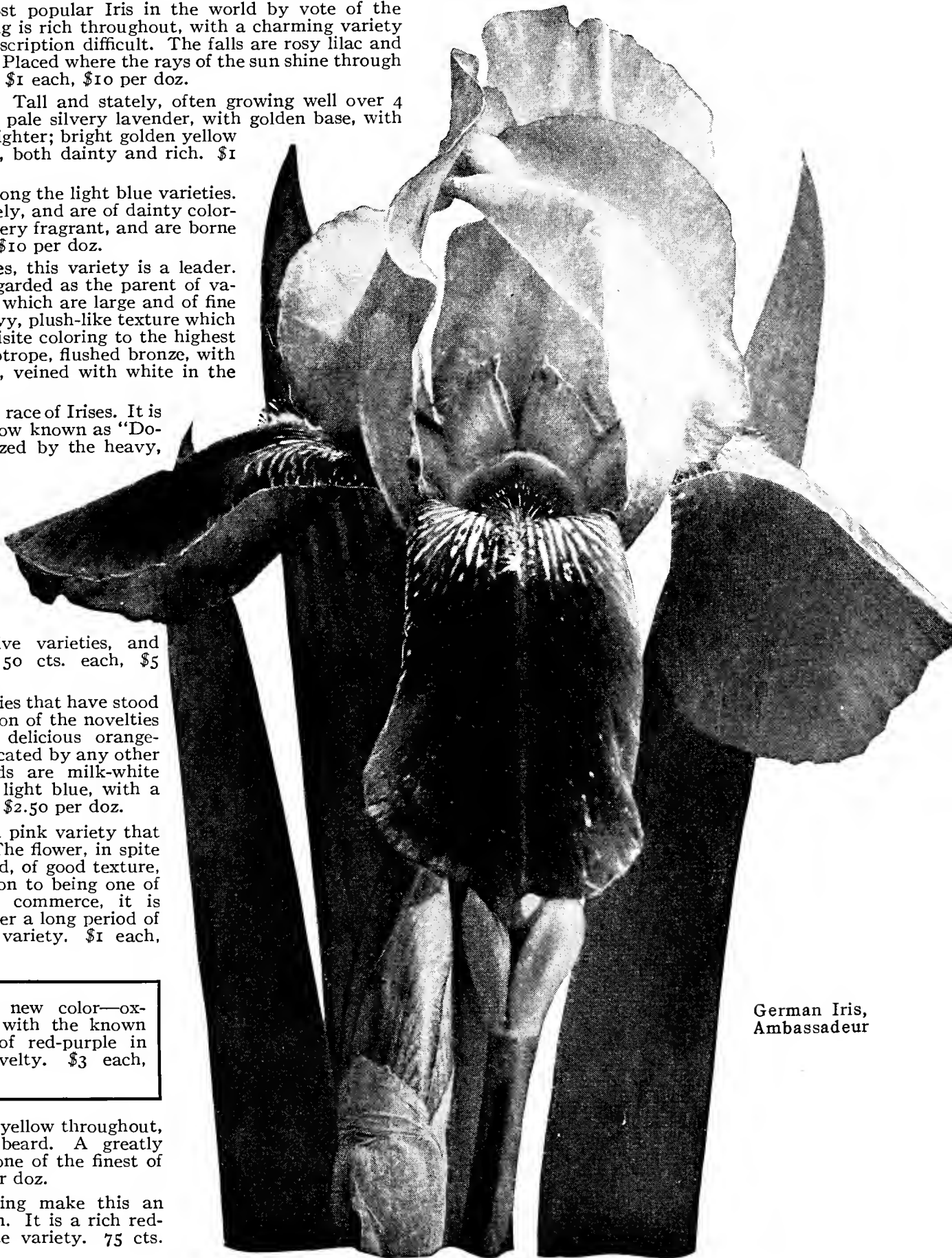
FAIRY. One of the few older varieties that have stood the test of time and the competition of the novelties offered today. With some, its delicious orange-blossom fragrance cannot be duplicated by any other variety. The falls and standards are milk-white delicately penciled and margined light blue, with a bright golden beard. 25 cts. each, \$2.50 per doz.

FRIEDA MOHR. A giant-flowered pink variety that measures up to 7 inches across. The flower, in spite of its huge size, is perfectly formed, of good texture, and brilliantly colored. In addition to being one of the largest-flowered varieties in commerce, it is very free flowering and blooms over a long period of time. Certainly an outstanding variety. \$1 each, \$10 per doz.

GOBLIN RED. An absolutely new color—ox-blood-red—contrasting sharply with the known red Irises by complete lack of red-purple in make-up. An outstanding novelty. \$3 each, \$30 per doz.

GOLD IMPERIAL. Deep chrome-yellow throughout, enhanced by a bright orange beard. A greatly admired variety and considered one of the finest of the yellow Irises. \$1 each, \$10 per doz.

GREVIN. Height and rich coloring make this an outstanding variety in the garden. It is a rich red-purple throughout and a favorite variety. 75 cts. each, \$7.50 per doz.



German Iris,
Ambassadeur

GERMAN IRIS, continued

JACQUELINE GUILLOT. Among the larger-flowered varieties, this is unique in color. The blooms are finely formed, silky in texture, and of a beautiful bluish violet throughout. A French variety that has found an enviable place with American Iris fanciers. \$1 each, \$10 per doz.

KHEDIVE. Another of the older varieties that it has not been easy to replace. Standards beautiful soft lavender; falls white, veined brown. 25 cts. each, \$2.50 per doz.

LENT A. WILLIAMSON. One of the best garden Irises, and ranked in 1922 as the best Iris in the world. The standards are of lavender-violet and the falls royal purple. The fine form and great substance of the flowers make this variety a prize-winner. 30 cts. each, \$3 per doz.

LOHENGRIN. Foliage and flowers of gigantic size, with petals 2 inches wide. Standards and falls are of a uniform shade of violet-mauve. 50 cts. each, \$5 per doz.

LORD OF JUNE. The older sorts cannot compare with this peer of blue varieties. The blooms are huge in size, dwarfing other varieties in the garden, and possess an enchanting fragrance. The standards are soft lavender-blue and the falls rich violet-blue. 40 cts. each, \$4 per doz.

MAGNIFICA. Many things contribute to the beauty of this strong-growing variety. The blooms are delightfully fragrant, of heavy texture and large size. The general color is violet, in the standards shaded blue, and in the falls shaded red. 50 cts. each, \$5 per doz.

MOLIERE. Standards of light blue, overlaid brown; falls purplish maroon, lighter at the edges. Flowers of large size, fine form and substance. 50 cts. each, \$5 per doz.

MORNING SPLENDOR. An American introduction of great merit. The blooms, which are sweetly scented, are of deep rich purple. Very fine habit, form, and substance make it an excellent garden variety. 50 cts. each, \$5 per doz.

MOTHER OF PEARL. This variety is well named. Introduced several years ago, it has become a favorite. Iridescent shades of mother-of-pearl suffuse the entire bloom, which is of large size and perfect shape. The white throat is overlaid with gold. 50 cts. each, \$5 per doz.

OPERA. The limited class of violet-red Irises was greatly enriched with the introduction of Opera. Silky blooms of rich violet-red are produced in great profusion on 2-foot stems. The beard, too, is of a decidedly reddish tone. 50 cts. each, \$5 per doz.

PALLIDA, ALBERT VICTOR. Another of the older varieties that it has been hard to duplicate. Standards soft blue; falls lavender. 25 cts. each, \$2.50 per doz.

PERFECTION. Standards light blue; falls dark violet. A very free-flowering variety and an excellent one for the garden. 40 cts. each, \$4 per doz.

PRINCESS BEATRICE. Pure, soft, lustrous lavender. Blooms of large size and fine shape. An outstanding variety in its color, and rated as one of the most perfect of Irises. 75 cts. each, \$7.50 per doz.

PRINCESS VICTORIA LOUISE. The combination of colors found in this variety has kept it in the front rank. The standards are sulphur-yellow and the falls rich plum, bordered cream. 25 cts. each, \$2.50 per doz.

PROSPER LAUGIER. One of the finest varieties in which bronze predominates, and rated by many as the best in existence. The standards are a glistening fiery bronze, and the falls rich ruby-red with a velvety sheen. The throat is white, netted with old-gold. A glistening orange beard still further adds to its attractiveness. 50 cts. each, \$5 per doz.

QUAKER LADY. One more of the older varieties that we have retained because of its unquestioned merit. Vigorous in growth and beautiful in color. The standards are smoky lavender and the falls of the same shade overlaid with gold. 25 cts. each, \$2.50 per doz.

QUEEN ALEXANDRA. Standards fawn, shot with lilac; falls bronze with yellow beard. 25 cts. each, \$2.50 per doz.

QUEEN CATERINA. The most striking point about this variety is the contrast between the pale lavender-violet of the standards and falls and the brilliant orange beard. Under certain conditions of light it appears toned with pink. A delightful fragrance is another point in its favor. 30 cts. each, \$3 per doz.

RAFFET. A variety combining several shades of violet in a most attractive fashion. The standards are intense violet-blue and the falls darker violet, marked white. 30 cts. each, \$3 per doz.

RHEIN NIXE. A very old variety that more than holds its own with recent novelties. The standards are snow-white and the falls rich pansy-violet, with a margin of white. It is of high rating and almost perfect in form and substance. 25 cts. each, \$2.50 per doz.

SEMINOLE. In the limited class of crimson Irises, this is king. No other Iris has yet been introduced to equal it in brilliancy of color. It is a bright velvety red-purple throughout, with a striking orange beard. 40 cts. each, \$4 per doz.

SHEKINAH. Considered to be the best all-round yellow obtainable. The standards are slightly ruffled and of clear soft yellow; falls are of the same color, with a fine golden beard. Perhaps not as large as some others, but by far the most attractive for the garden. 35 cts. each, \$3.50 per doz.

SHERWIN WRIGHT. Fine deep yellow throughout. Perfectly hardy and excellent for landscape work. 25 cts. each, \$2.50 per doz.

SOUV. DE MME. GAUDICHAU. To France we owe this peer of all purple Irises. It is superior to any other variety in this color class, being larger, darker and of higher rating. The standards are dark purple and the falls are even a shade darker, with blackish sheen. Even the beard is of the same color. In addition, it possesses a delightful fragrance. 50 cts. each, \$5 per doz.

SUSAN BLISS. Here, almost at the end of our list, we place the finest pink Iris. Welcomed with enthusiasm by Iris-lovers, it has well deserved their praise. Orchid-pink blooms of perfect form proudly surmount tall, strong stems. \$1.50 each, \$15 per doz.

WHITE KNIGHT. Though the stems are but 2 feet tall, the blooms they bear place it among the leaders. Flowering late, it produces waxy white flowers of heavy texture and fine form. Best for resisting unfavorable weather. 60 cts. each, \$6 per doz.

SIBERIAN IRIS

The Siberian Irises are much like the Dutch Bulbous Irises in form of flower and time of bloom. Their foliage, however, is long and grass-like. They are splendid for cut-flowers.

EMPEROR. A fine dark-flowering variety. The blooms are large and the texture fine. A uniform deep violet-blue throughout. 30 cts. each, \$3 per doz.

PERRY'S BLUE. Decidedly the most popular of the Siberian Irises, and probably the best. In color it is a beautiful shade of sky-blue, with the falls slightly marked white. 30 cts. each, \$3 per doz.

IRIS PUMILA

These lovely little Irises do not grow over 4 inches high, and bloom during April and May. They are useful plants for the rock-garden and can also be used for bordering flower-beds or planting in front of the tall Irises. Even if the soil be dry and poor, they will thrive, provided they have sunshine for only part of the day.

	Each	Doz.
Excelsa. Splendid pale lemon-yellow.....	\$0 35	\$3 50
Sambo. Dark violet-blue.....	35	3 50
Schneekuppe. A large, showy white.....	35	3 00

CRESTED IRIS (*Iris Cristata*)

Fragrant dwarf Iris, growing 6 inches in height, making it suitable for rockery or ground-cover under trees. Flowers about the size of a silver dollar, of soft amethyst-blue, crested, and with a touch of gold. 50 cts. each, \$5 per doz.



Siberian Iris

MONTBRETIAS

The Montbretias are one of the brightest of our summer-flowering bulbs, and deserve to be planted extensively. The bulbs should be set out during April or May, 3 to 6 inches apart, in clumps of a dozen or more. They should be protected during the winter with a heavy covering of leaves or litter.

NEW GIANT-FLOWERING VARIETIES

The following seven varieties of new, giant-flowering Montbretias should be grown by everyone desiring the best. The type is so distinct from existing kinds as to justify recognition as an entirely new race. The flowers are held erect, sometimes as much as 4 inches across, and are borne on stems 3 or 4 feet high.

His Majesty. The largest and finest of all the Montbretias. Tall grower, with splendid foliage, and flowers frequently 3 inches across, an even tone of brilliant scarlet, with yellow center. 30 cts. each, \$3 per doz., \$20 per 100.

Queen Alexandra. A choice variety of erect habit of growth, chrome-yellow, with carmine blotch at the base of petals. The flowers, like all the new Earlham hybrids, are large, and the plant frequently attains the height of 4 feet. 30 cts. each, \$3 per doz., \$20 per 100.

Una. Another of the new Earlham hybrids. The large, well-shaped flowers are a rich apricot, with carmine blotch. Plants frequently attain the height of 3½ feet. 30 cts. each, \$3 per doz., \$20 per 100.

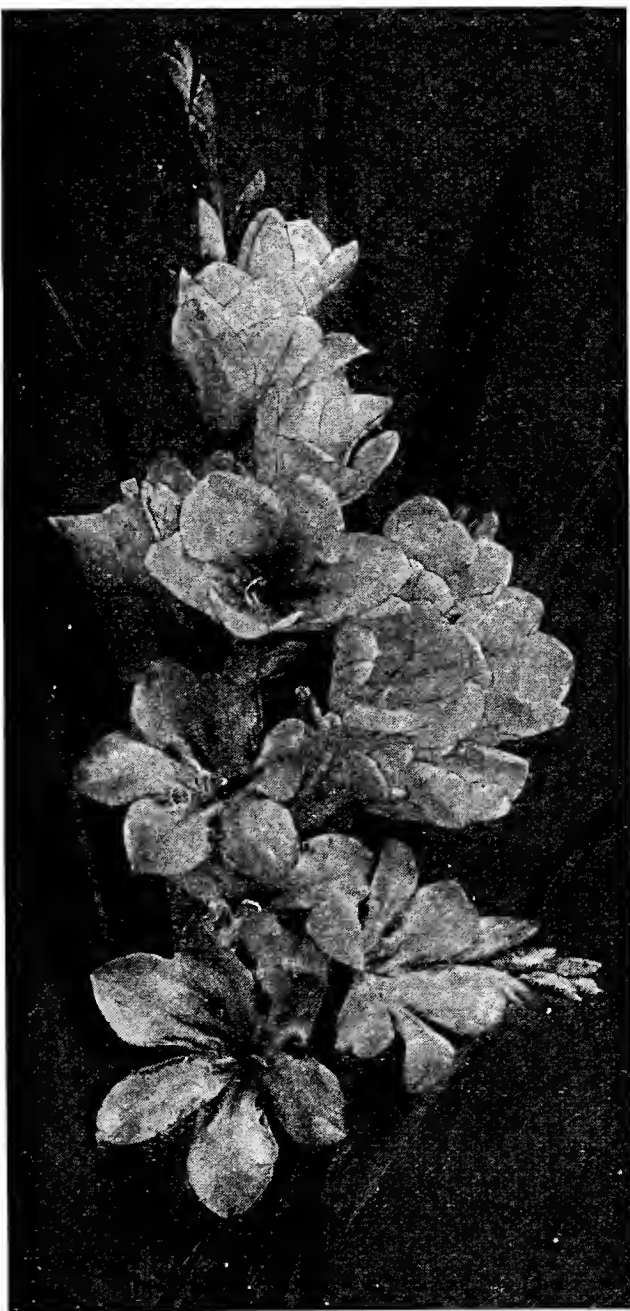
Fire King. Splendid glowing scarlet-red, decidedly one of the most beautiful and compares favorably with any of the new and more expensive sorts. 15 cts. each, \$1.25 per doz., \$7.50 per 100, \$70 per 1,000.

George Davidson. A splendid Montbretia. The stems are 3 to 4 feet high, eight to ten-branched, bearing lovely, pale orange-yellow flowers 3 inches across; among the first to flower, and makes a glorious show in the garden. 20 cts. each, \$2 per doz., \$10 per 100, \$90 per 1,000.

Germania. Grows from 3 to 4 feet high, producing graceful, free-branching flower-spikes, bearing very large, widely expanded flowers 2 to 3 inches across. The color is a rich, glowing orange-scarlet, with red throat. 15 cts. each, \$1.25 per doz., \$7.50 per 100, \$70 per 1,000.

King Edmund. A very strong grower. The flowers are of large size, and of a rich golden yellow, with brown markings in the throat. 15 cts. each, \$1.25 per doz., \$7.50 per 100, \$70 per 1,000.

Grow a few Golden Yellow Callas this year. See page 118.



Montbretia, Germania

OXALIS

This excellent summer-blooming bulb is excellent for edging the borders of walks or flower-beds.

Deppei. Small; white.

Lasiandra. Rosy pink. Beautifully cut foliage.

Shamrock. Pink flowers. Clover-like foliage.

25 cts. per doz., \$1.50 per 100, \$12.50 per 1,000

TIGRIDIA (Tiger Flower)

This is a very beautiful and useful bulbous plant for the border. The bulbs may be planted and treated similar to gladiolus. The plants attain a height of 2 feet and the very showy flowers are borne in succession—as each one fades another appears.

Selected Mixed. A mixture of red and yellow, yellow and scarlet, and reddish brown. \$2.50 per doz., \$15 per 100.

TUBEROSES

One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed; and for a succession they can be planted at intervals as late as July. For flowering in the open border, plant about the middle of May, or as soon as the ground becomes warm.

Excelsior Double Pearl. Pure white, double-flowering Tuberose. Jumbo Exhibition Bulbs, 10 cts. each, \$1 per doz., \$7.50 per 100.

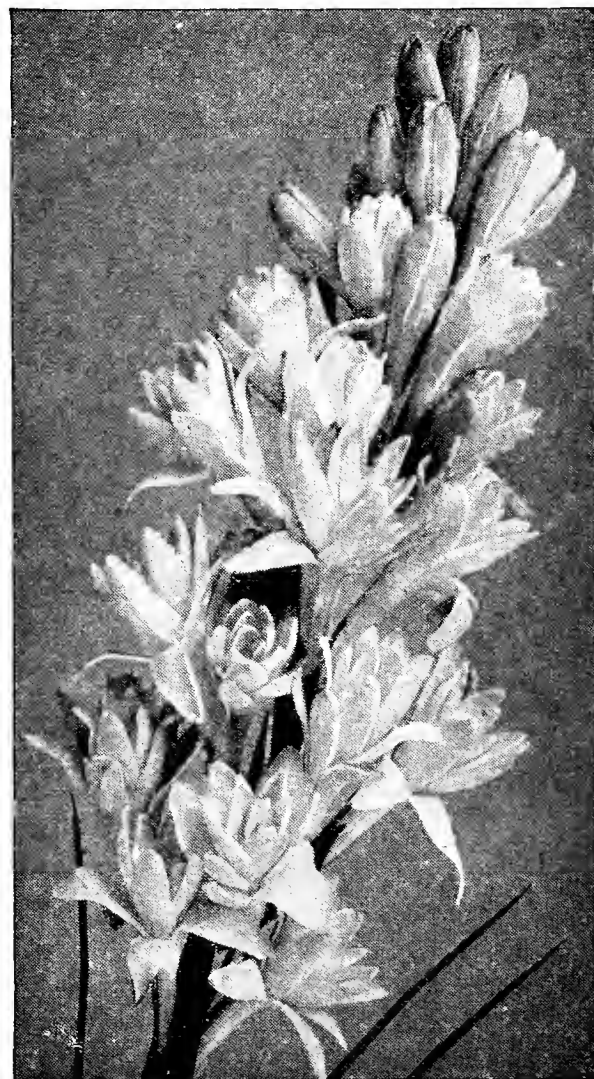
Albino. A single white variety blooming in July or August. Not so well known as the Double Pearl, and the odor is not so pronounced. 15 cts. each, \$1.50 per doz., \$10 per 100.

ZEPHYRANTHES

These are very useful for the open border. They are easily managed, requiring the same treatment as the gladiolus, and can be planted at the same time, but more closely.

Alba. Pure white. \$1 per doz., \$6 per 100.

Rosea. Clear rose. \$1.75 per doz., \$12 per 100.



Tuberose



HERBACEOUS PEONIES

CULTURE.—The culture of Peonies is quite simple. They require a good, deep, rich soil and an abundant supply of water during the growing season. When enriching the ground, the use of too much fresh manure near the roots should be avoided. The main point to observe is, while the ground should be well spaded and cultivated, **not to plant the roots too deep.** The roots should be planted so that the eyes are barely covered (about 1 to 2 inches). Too deep planting is the cause of shy flowering.

Size of Roots.—The roots we offer have been grown two years from root divisions. If planted during September and October these roots should become well established and give some flowers the following year.

Many of the following varieties of Peonies have received a very high rating. They are grown at our own Farmingdale Farm, on Long Island. Each variety offered has been selected by us on account of its merit.

White Shades

Alsace-Lorraine. 8.8. (Lemoine, 1906.) A late-blooming variety with pointed white petals suffused with a golden light from the stamens, giving somewhat the appearance of a water-lily. Tall and vigorous. \$1 each, \$10 per doz.

Festiva Maxima. 9.3. (Mieliez, 1851.) This is probably the most widely known of all Peonies. Exceptionally large ivory-white flowers of rather feathery appearance, flecked with crimson in the center. 60 cts. each, \$6 per doz.

La Lorraine. 8.1. (Lemoine, 1901.) Cream-white, tinted pink, with yellow glow from buried stamens. \$1 each, \$10 per doz.

Princess Olga. (Kelway, 1915.) Double blush-white blooms. \$1 each, \$10 per doz.

Solange. 9.7. (Lemoine, 1907.) One of the very finest Peonies. Extra-large flowers with broad, rounded petals of such fine form that the flower does not look coarse. Petals waxy white but suffused with a reddish golden light, so that the total effect is such as may be seen on a cloud at sunset. Late midseason. \$1.50 each, \$15 per doz.

Pink Shades

Alice Balfour. (Kelway, 1915.) Lovely large, double rose flower. \$1 each, \$10 per doz.

E. G. Hill. (Lemoine, 1906.) Rose-pink, tinted lighter; sometimes with a few golden stamens. A stiff-stemmed variety flowering in midseason. \$1.50 each, \$15 per doz.

General Joffre. Large bomb-shaped flowers of a clear rose-pink. Guard petals wider than those in the center. \$1 each, \$10 per doz.

Henry Woodward. Bright pink, shaded old-rose and white, with some yellow at base of petals. Fragrant. \$1 each, \$10 per doz.

La France. Clear, light pink, richer in center and flecked darker toward tips, with crimson splashes on outer petals. Fragrant. Tall; free flowering; strong stems. \$1.50 each, \$15 per doz.

Lady Bramwell. Silvery rose; very fragrant. Early flowering. \$1 each, \$10 per doz.

Mignon. 8.7. (Lemoine, 1908.) Lovely light flesh-pink blooms passing to white when fully open and showing a rose-like center; rich rose-like fragrance. Midseason. \$1 each, \$10 per doz.

Mme. Benoit Riviere. Pink. A well-known, free-flowering variety. Strong foliage. \$1 each, \$10 per doz.

Mme. Emile Dupraz. (Riviere, 1911.) Soft carmine-rose; interior darker, with soft velvety tints and silvery reflex. 75 cts. each, \$7.50 per doz.

Mme. Francois Toscanelli. One of the older varieties, much sought after for its definite flesh-pink coloring. Heavy foliage. \$1 each, \$10 per doz.

Mme. Manchet. 8.5. (Dessert, 1913.) Very full, cup-shaped flowers of rose-pink, with a silvery tint. Tall, stiff stems. \$1 each, \$10 per doz.

Mons. Jules Elie. Giant flowers, with flaring, wide petals and a tall, incurved, compact center. Gay, silvery pink throughout. Early. One of the finest Peonies. \$1 each, \$10 per doz.

Pasteur. (Crousse, 1896.) Large flowers of very delicate shell-pink, with soft yellow tints at bases of petals. \$1.50 each, \$15 per doz.

Rachel. 8.3. (Lemoine, 1904.) Large, globular flowers of excellent form; fresh, soft rose, borne on strong stems. \$1 each, \$10 per doz.

Sir John French. (Kelway, 1915.) A new deep pink variety of European origin. Strong grower. \$1.50 each, \$15 per doz.

Suzanne Dessert. Clear china-pink, silvery on tips. 75 cts. each, \$7.50 per doz.

Red Shades

Dr. H. Barnsby. 8.1. (Lemoine, 1906.) Large, very full blooms of crimson with darker shades. Free bloomer in clusters, making a good variety for garden effect. Late. \$1.50 each, \$15 per doz.

Felix Crousse. Compact, globular bloom of large size and fine form. Deep ruby-red, center shading deeper. Very choice. Midseason to late. \$1 each, \$10 per doz.

Francois Rousseau. Rich crimson, with a dark silky sheen, lighter toward the base of the petals, and brightened by the reflection from buried stamens. Medium tall. Vigorous, upright growth. \$1.50 each, \$15 per doz.

Gloire de Torraine. Double dark rose-red flower. Late. \$1 each, \$10 per doz.

Marquis C. Lagergren. 7.8. (Dessert, 1911.) Brilliant cherry-red, with dark shadings. Flowers borne in clusters on stiff, upright stems, which make it an excellent variety for mass planting. Midseason. \$1 each, \$10 per doz.

Rudyard Kipling. (Kelway, 1917.) Double cerise blooms. \$1 each, \$10 per doz.

War. (Kelway, 1916.) Double red flowers. \$1.50 each, \$15 per doz.

Yellow Shade

Primevere. Anemone type. Medium size; midseason. A fine yellow Peony, with guard petals creamy white, enclosing a central ball of sulphur yellow. If cut in the bud, as it begins to open, so the flower may develop away from the sun, it will hold a clear yellow color. The foliage is dark green. \$2 each, \$20 per doz.

Single Peonies

L'Etincelante. 8.4. (Dessert, 1905.) Large flowers and broad petals of brilliant carmine with a silvery border. Stems erect and vigorous.

Nymphe. (Dessert, 1913.) Large, flesh-colored petals, with a central tuft of golden stamens.

Othello. Deep rose with good stems, good laterals, and excellent for the Peony border.

Yeso. 7.7. (Japanese.) Guard or outside petals pure white, narrow center petals white, shaded slightly yellow, often with a carmine tip. \$2 each, \$20 per doz.

Above Single Peonies, except where noted, 75 cts. each, \$7.50 per doz.

HARDY PHLOX

The Hardy Phloxes are, without doubt, the most important of all hardy perennials, and are now to be found in nearly every garden. They succeed in almost any kind of soil or position, and flower from early summer until late in the fall. They also improve from year to year, and contain a range of brilliant colors not found in any other hardy plant. We have a very fine collection of them.

CULTURE.—Hardy Phlox may be planted in spring or fall; a mulch of old manure thrown around the roots will be of benefit to the plants. Phlox should be set out 18 inches apart, and if kept well watered will produce both individual blossoms and heads of bloom far larger than otherwise, and amply repay the extra trouble. To procure best effects, plants should be massed in from six to twelve clumps of each variety.

Superb Hardy Phlox

Our plants are choice divisions from field-grown plants which we have found to give excellent satisfaction.

Bridesmaid. Pure white with large crimson center.

B. Comte. Rich, satiny purple-red flowers. Tall grower. 35 cts. each, \$3.50 per doz., \$25 per 100.

Commander. Crimson-red with darker eye.

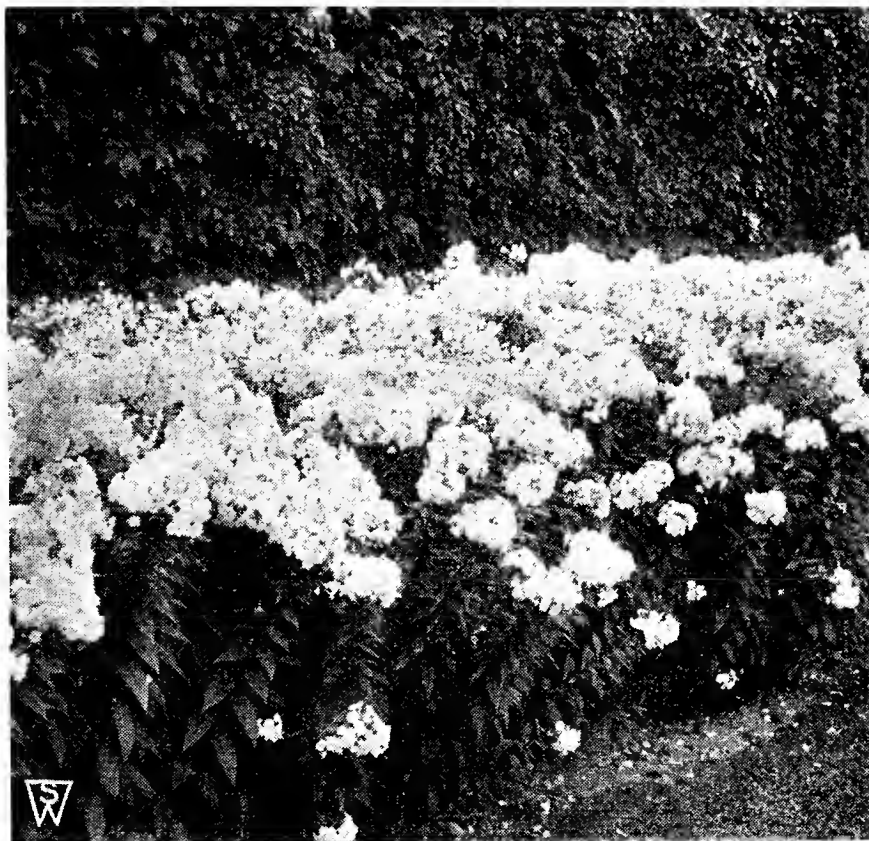
Elizabeth Campbell. Large; soft pink. 35 cts. each, \$3.50 per doz., \$25 per 100.

Enchantress (an improved Elizabeth Campbell). Large; soft pink. 35 cts. each, \$3.50 per doz., \$25 per 100.

General van Heutz. Salmon-red with greyish white eye.

Mrs. Milly van Hoboken. A splendid new variety of bright pink, slightly suffused mauve. Very large florets. 35 cts. each, \$3.50 per doz., \$25 per 100.

Obergartner Reichenau. Extra-large flowers of bright rose. Strong, compact grower; extra-heavy foliage.



A border planted with Hardy Phlox makes a beautiful display

Rynstroom. Dark salmon-rose. Easily one of the finest Phlox of its color.

Sunset. A fine dark rosy pink variety.

Sunshine. Pink. A strong-growing kind.

Terre Neuve. Lavender, with lighter center.

Wanadis. Immense trusses with large individual florets. Delicate lilac shade with bluish purple eye.

Wida. Exquisite two-tone lavender rayed with white.

Price of the above varieties, except where noted, 30 cts. each, \$3 per doz., \$20 per 100

Early-flowering Hardy Phlox (*Phlox suffruticosa*)

Miss Lingard. A fine variety, which begins flowering after the middle of June and continues throughout the season. Large white flowers, with pale pink eye. Extensively used for cut-flowers. 30 cts. each, \$3 per doz., \$20 per 100.

TRITOMA Sawco Strain

We are pleased to offer below a new and improved Sawco Strain of Tritomas. In these you will find the full range of color, size, and constitution of plant beyond comparison. Tritomas are a most valuable flower for cutting. They have a peculiarity of arranging themselves when put in the vase—set flowers in vase and water and within a few hours the blooms will arrange themselves most attractively and gracefully.

Autumn Tints. A pleasing combination of red and gold. Free flowering and a strong grower, making a welcome addition to the perennial flower-border during September and October.

Flaming Torch. As the name indicates, this variety is of a flaming red color, shaded yellow, throwing long stems of bloom 3 feet high. August, September.

Golden Thoughts. The color is a rich old-gold. Flowers during August and September. Habit is dwarfer and more compact than the scarlet varieties.

Orange Glow. Deep, warm orange color. Free blooming. Very effective in a mass planting with *Eupatorium caelestinum*.

Orange Queen. A bright orange color. Blooms are very desirable for cutting as the flower-heads are not so heavy as some varieties.

Sulphur Spire. Delicate shade of citron-yellow. Flowers freely in September. The blending of this with a planting of the scarlet varieties gives a very pleasing effect in the flower-border.

Prices on above, 75 cts. each, \$7.50 per doz.

Pfitzeri. The greatest bedding plant ever introduced, surpassing the finest cannas for attractiveness and brilliancy, and equal to gladiolus as a cut-flower. It blooms incessantly from June until December, regardless of frost. Plants are perfectly hardy in the open ground all winter south of New York; farther north they must be protected or wintered in a cellar. Just bury the roots in sand. Should be planted out early in spring, and will commence growth at once and bloom early, growing larger and finer every day. 35 cts. each, \$3.50 per doz., \$25 per 100.

S. & W. Co.'s Hybrids. This strain of Tritoma is by far the most effective for planting in perennial borders. The plants offered are grown from seed of selected plants and carry a full range of color—from white to burnt orange—in the flowers, some being two-toned pink, rose, orange, red with white and yellow. At the price we offer these they should be bought by the dozen, so as to get the full range of charming colors. 25 cts. each, \$2.50 per doz., \$20 per 100.



Sawco Strain of Tritomas

New Exhibition Dahlias

The following list of Dahlias has been exhibited extensively at the past season's flower shows. They are the cream of the latest introductions and represent the best advances that have been made recently in the improvement of the Dahlia. We are offering these as our selection of twenty-seven that are among the finest of those exhibited last year. In order to offer them at popular prices, we are selling green plants only, except where noted. In order to properly describe Dahlias listed as to type of flower we have noted against each variety the following letters: F.D. meaning Formal Decorative; I.D., Informal Decorative; Semi-C., Semi-Cactus; I.C., Incurved Cactus; S.C., Straight Cactus. **We offer green plants out of 2½-inch pots. Delivery between May 15 and June 1.**

Andrea Erickson. I.D. (Fisher & Masson.) A fine, large, pure white flower, with petals slightly twisted at the tips and center full and deep. Long, strong stems. Early and free bloomer. **Plants, \$1.50 each, \$15 per doz.**

Antartica. F.D. (MacDonald.) A huge white Dahlia of excellent habit of growth. Flowers always held erect upon long, sturdy stems. Foliage rugged and healthy. Can be used for either exhibition or cut-flowers. **Plants, \$1 each, \$10 per doz.**

Bagdad. I.D. (Redfern.) A gigantic, flaming scarlet-red on long, sturdy stems. An ideal grower and free bloomer. Very fine exhibition Dahlia. **Plants, \$1.50 each, \$15 per doz.**

Big Chief. I.D. (Success.) Its rich autumn shades give a general effect of salmon-buff. The flowers are immense, carried erect on long, fine, stiff stems. Very free bloomer. Fine exhibition Dahlia. **Plants, \$1 each, \$10 per doz.**

Captain Coste. I.D. (Curran-Waite.) This Dahlia has won prizes wherever shown. It is an immense flower with large, clear yellow petals having a wax-like, golden sheen. Stems are very strong. A very fine exhibition Dahlia. **Plants, \$1.50 each, \$15 per doz.**

Dwight Morrow. I.D. (Maytrott.) One of the outstanding gigantic red Dahlias. Blooms held erect on long, sturdy stems. Heavy, dark green foliage. Strong, healthy grower. **Plants, \$3 each, \$30 per doz.**

Eagle Rock Fantasy. I.D. (Broomall.) A massive, deep, informal Decorative of clear mallow-pink. Stems unusually long and strong. Vigorous in growth, with good habits. **Plants, \$4 each, \$40 per doz.**

Eagle Rock Wonder. S.C. (Broomall.) Fine Dahlia of tremendous size, with perfect bloom and stem; profuse bloomer and vigorous grower. The color is Mars-orange with a suffusion of pink and salmon. A prize-winner. **Plants, \$2.50 each, \$25 per doz.**

Edward Thomas Bedford. I.D. (Brock.) Giant, clear deep purple flower, held perfectly erect on very long stem. A prodigious producer of mammoth flowers throughout the season. A sensation. **Plants, \$1.50 each, \$15 per doz.**

Eliza London Shepard. I.D. (Peacock.) One of the finest Peacock introductions and a new shade of golden orange-apricot. Rigid, long stems carry the flowers well above the foliage. Fine, vigorous grower. **Plants, \$1 each, \$10 per doz.**

Elizabeth Harding. Semi-C. (Harding.) A more beautiful blending of shades of roses, suffused with pale yellow at base of each petal, would be hard to find. Very large flowers of the most perfect form. Vigorous, free-blooming variety. **Plants, \$1.50 each, \$15 per doz.**

Girl of Hillcrest. I.D. (Scott.) One of the largest Dahlias of unusual merit. Color is a brilliant Mikado orange. Strong grower; free flowering; fine stems. **Plants, \$3 each, \$30 per doz.**

Goodnight. I.D. (Reed.) Monster flowers of ox-blood-red, shaded dark maroon. A sensational variety that should be in every collection. **Plants, \$1.50 each, \$15 per doz.**

J. D. Torbet. I.D. (Eastman.) This Dahlia will produce a quantity of medium-sized blooms on long stems. Color is beautiful, being a combination of salmon-apricot with flame and gold shadings. **Plants, \$1.50 each, \$15 per doz.**

Jean Keefer. I.D. (Keefer.) A very attractive, brilliant rose-pink with long, gracefully curled petals. The large flowers are held high above the foliage on long, slender, but rigid stems. Blooms very freely. **Plants, \$3 each, \$30 per doz.**

Jean Trimbee. Semi-C. (Trimbee.) Flowers very large, of rich petunia-violet. Strong, vigorous grower and free bloomer. Splendid for exhibitions. **Plants, \$1.50 each, \$15 per doz.**

Jersey's Buttercup. F.D. (Waite.) The color of this beautiful Dahlia is picric yellow. A very prolific bloomer. Stems long and stiff. Fine cut-flower and exhibition variety. **Plants, \$1.50 each, \$15 per doz.**

Jersey's Meteor. F.D. (Waite.) This splendid Dahlia is a seedling of Jersey's Beacon, and like it except in color, which is a light salmon-orange. A fine exhibition flower with good stems and vigorous growth. **Plants, \$1.50 each, \$15 per doz.**

Josephine G. Semi-C. (Grosscross.) The color of this beautiful Dahlia is a bright rose-pink with petals tipped yellow. Sturdy, vigorous grower. Fine stems. **Plants, \$2.50 each, \$25 per doz.**

Katherine Cole. F.D. (McDowell-Waite.) A beautiful combination of pink and cream, tips of petals pink shading to cream. Stems long and strong. Won the Darnell Cup for the best-keeping variety. **Plants, \$1 each, \$10 per doz.**

Lord Lambourne. I.D. (Stredwick.) The flowers of this English introduction are very large, and the blooms are a sunset harmony of pink and gold, but the old-gold and bronzy tints predominate. Long stems. A fine bloomer. This is the finest introduction of the famous originator, Stredwick, of England. A splendid exhibition Dahlia. It beat Jane Cowl in competition at Red Bank. **Plants, \$1.50 each, \$15 per doz.**

Monmouth Champion. F.D. (Kemp.) Flame-scarlet flowers 12 inches and more across, full centered, and borne high above the foliage on stiff stems holding them forward. Strong grower and free flowering. **Plants, \$1 each, \$10 per doz.**

The Commodore. I.D. (Scott.) We believe this to be the largest and most brilliant yellow Dahlia. Many of the blooms are 12 inches across, of good depth, and held high above the foliage on long stems. Will be a prize-winner in the sweepstake class. **Plants, \$3 each, \$30 per doz.**

Thomas A. Edison. F.D. (Maytrott.) Immense dark purple-maroon flowers of splendid form held upright on the best of stems. Free bloomer and vigorous grower. **Plants, \$1.50 each, \$15 per doz.**

Warren-Church. S.C. (Stumpp & Walter Co.) This variety, our introduction of last year, has been very favorably commented on. In habit it is like Ambassador. The flowers are at all times immense and carried on fine, long, strong stems. Color is most pleasing—the softest true pink, shading to white. The large, perfect, regularly formed blooms with full, deep centers, can be easily grown to measure 10 inches or more across. This Dahlia is not only an attractive garden flower but excellent for exhibition. A very superior Dahlia and a most worthy addition to the Cactus class. **Tubers, \$2 each, \$20 per doz.**

Watchung Wonder. I.D. (Smith.) Royal red with a touch of gold at center. A monster flower on the best of stems. Everyone should have this great Dahlia. **Plants, \$1.50 each, \$15 per doz.**

W. H. T. F.D. (McCarroll.) In this very large, beautiful variety we have a color that is most pleasing and attractive—a new rose-pink—on perfect stems. Free bloomer. **Plants, \$2 each, \$20 per doz.**

NEW AND RARE EXHIBITION DAHLIAS

The garden-lover who has become interested in Dahlias and vies with his neighbor in excelling him at his local Dahlia show, will be interested to know that some of the very high-priced varieties of last year are now available at more attractive prices. Our list of New and Rare Exhibition Dahlias has been reduced to those that we consider worthy of a place in every garden, and represents the cream of the finest varieties that are available in reasonable quantities. **We offer strong tubers for spring delivery.** In order to properly describe Dahlias listed as to type of flower, we have noted against each variety the following letters: F.D., meaning Formal Decorative; I.D., Informal Decorative; Semi-C., Semi-Cactus; I.C., Incurved Cactus; S.C., Straight Cactus. In order to further describe our meaning, the American Dahlia Society explains these classifications as follows:

Formal Decorative Dahlias (F.D.). Fully double flowers, floral rays generally broad, either pointed or rounded at tips, with outer floral rays tending to be cupped; all floral rays in a somewhat regular arrangement.

Informal Decorative Dahlias (I.D.). Fully double flowers, floral rays generally long, twisted, or pointed and usually irregular in arrangement.

Incurved Cactus Dahlias (I.C.). Fully double flowers with the margins of the majority of the floral rays revolute for one-half

or more of their length, the floral rays tending to curve toward the center of the flower.

Semi-Cactus Dahlias (Semi-C.). Fully double flowers with the margins of the majority of the floral rays revolute for less than one-half of their length.

Recurved or Straight Cactus Dahlias (S.C.). Fully double flowers with the margins of the majority of the floral rays revolute for one-half of their length or more, the floral rays being recurved or straight.

Avalon. F.D. A fine Dahlia of deep canary-yellow on long, erect stems. Very prolific. Can be used as a cut-flower or garden variety. **50 cts. each, \$5 per doz.**

Barbara Redfern. F.D. Very large, deep flowers of a delightful blend of old-rose and old-gold, borne on heavy, stiff stems. A free bloomer and vigorous grower. **75 cts. each, \$7.50 per doz.**

Barbara Wear. I.D. Flowers are large, of great depth and substance, with excellent keeping qualities; stems very long and strong. Color is a beautiful soft shade of pinkish lavender, shading to a soft creamy effect on the outer ends of petals. **75 cts. each, \$7.50 per doz.**

Betty Ivins. F.D. A very large, full flower of rich salmon, overlaid with an amber glow; reverse of petal has a glistening sheen of rosy pink. Fine upright stems. Plants medium height. **\$1 each, \$10 per doz.**

Bob White. F.D. Pure white, giant flowers, full and deep, borne on long cane stems that hold them absolutely upright. Good clean grower; insect-proof. This wonderful creation will be a sensation. We have never seen a white bloom so freely. **\$2.50 each, \$25 per doz.**

Calumet. F.D. Large, attractive flower of deep cinnamon-brown. A splendid bloomer and an excellent variety in every way. **75 cts. each, \$7.50 per doz.**

Chemar's Eureka. F.D. One of the best white Dahlias. A seedling of Jersey's Beauty. Has long, strong stems and vigorous growth. **75 cts. each, \$7.50 per doz.**

Chevacano. I.D. A beautiful, fine exhibition Decorative Dahlia of true form. Flower full and deep, rich apricot. Good bloomer; fine stems. Won many prizes on the Coast. **75 cts. each, \$7.50 per doz.**

Coquette. I.D. Thick, fluffy flower of Musketeer-red, blending to gold, borne on the best of stems. A free bloomer and vigorous grower. **\$1 each, \$10 per doz.**

Countess of Claverly. Semi-C. We are extremely fortunate in being able to offer to our customers this very fine Dahlia which is, without doubt, the finest, irresistible, real pink Semi-Cactus Dahlia, bearing full flowers, 8 to 10 inches across, from early in the season until killed by frost. It is a very vigorous grower, with fine stems, and a prolific bloomer. The flowers are excellent keepers and are even more beautiful under artificial light than outdoors. A sensation wherever shown. **\$1 each, \$10 per doz.**

Doris Canney. I.D. A fine Decorative of rich golden apricot coloring. The blooms are very large, of great depth and perfect form, and have fine keeping qualities. Strong stems. **75 cts. each, \$7.50 per doz.**

Dr. John H. Carman. F.D. A massive, broad-petaled Tyrian rose flower, tipped petunia and silver, on stiff, heavy stem. Free flowering. A sensation. **\$1 each, \$10 per doz.**

Earl Williams. F.D. This giant-flowering Dahlia attracted considerable attention at the Dahlia shows in recent years. The color is a combination of brilliant crimson and white. **50 cts. each, \$5 per doz.**

Elite Glory. F.D. Color brilliant American red. Blooms very large and held well above foliage on long, cane-like stems. Foliage exceptionally vigorous. **75 cts. each, \$7.50 per doz.**

Ellinor Vanderveer. F.D. Very large blooms of satiny rose-pink, with great depth and substance, on fine, long, strong stems. A splendid exhibition variety. **50 cts. each, \$5 per doz.**

Francis Larocco. F.D. One of the finest large, pure yellow, Decorative Dahlias in existence, and perfect in form. Vigorous grower with fine stems and of profuse-blooming qualities. A Dahlia that should be in everybody's garden. **50 cts. each, \$5 per doz.**

Jane Cowl. I.D. One of the few outstanding exhibition Dahlias in 1928 and 1929. Deep, massive blooms of a bronzy buff and old-gold, blending darker toward the perfect center. A stem of unusual strength holds this giant Decorative over a plant of ideal growth, while the foliage is the thick, leathery kind that insects seldom injure. **50 cts. each, \$5 per doz.**

Jersey's Beacon. F.D. This fine novelty is Chinese-scarlet, paler on the reverse, giving a two-toned effect. It is a great favorite and a real "beacon of the garden." Large; free bloomer; vigorous grower. **50 cts. each, \$5 per doz.**



Decorative Dahlia, Jane Cowl

NEW AND RARE EXHIBITION DAHLIAS

Jersey's Beauty. F.D. This is, without a doubt, the finest true pink Decorative Dahlia yet introduced. The beautiful large, pink flowers are of perfect form and are supported on long, straight, stiff stems, held well above the foliage. As a cut-flower, it is a wonderful keeper and is instantly admired. A splendid exhibition Dahlia, and equally valuable for garden decoration. Owing to a good supply of tubers, we are able to offer this fine Dahlia at a reasonable price this year. **35 cts. each, \$3.50 per doz.**

Jersey's King. F.D. Very large, perfect flowers of a brilliant Oriental red, with carmine suffusion, are borne on long, stiff stems, well above the foliage. **50 cts. each, \$5 per doz.**

Jersey's Masterpiece. I.D. A bold, upstanding exhibition flower of gold, suffused strawberry. Form resembles the old favorite Insulinde, but much more beautiful. Very free bloomer. **\$1 each, \$10 per doz.**

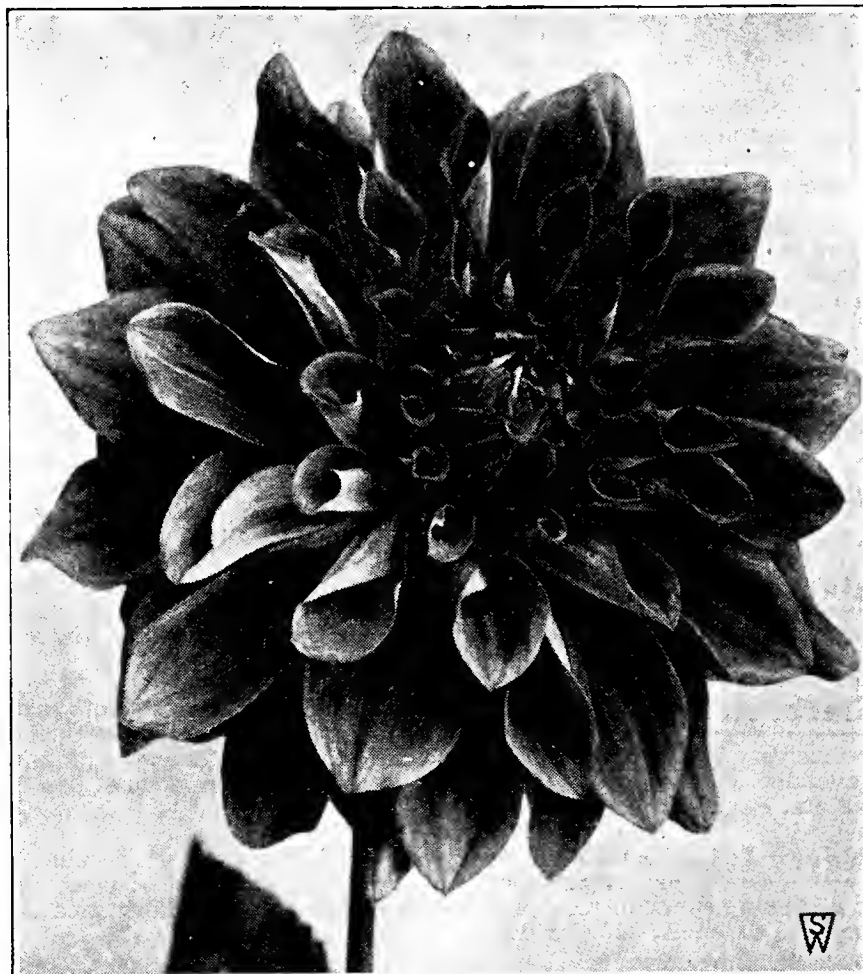
Jersey's Sovereign. I.D. An indescribable shade of salmon-orange. Dark foliage. Early bloomer and good grower. **50 cts. each, \$5 per doz.**

Jersey's Triumph. F.D. One of the real autumn shades—bright copper flushed with salmon-bronze; large flowers. In habit the same as Jersey's Beauty, coming from the same parents. Won the highest award in Holland, 1931. **\$1 each, \$10 per doz.**

Kathleen Norris. I.D. A bloom of massive proportions, with broad, overlapping petals having twisted ends. Color, a true rose-pink, deepening to mallow-pink. Great bloomer on perfect stems. **\$2 each, \$20 per doz.**

Kemp's Fort Monmouth. I.D. One of the giants of the Dahlia world. In color it is a rich crimson-maroon, with a faint tint of bluish violet at tips of petals. An immense flower, frequently 13 inches in diameter, and borne on long, strong stems, well above the foliage. Does not burn; a fine keeper and an excellent Dahlia for exhibition. **\$1 each, \$10 per doz.**

Kentucky. F.D. (Wigginton.) A sport of Jersey's Beauty, having the same good qualities. Color is a wonderfully brilliant light salmon-orange, shading to orange-yellow at base of petals, deepening to grenadine-pink on the reverse of petals. Long, strong stems. Very prolific bloomer. From early to late. **\$1 each, \$10 per doz.**



Decorative Dahlia, Jersey's Beacon. See page 129

King Midas. F.D. An immense, beautiful, pure golden yellow flower of perfect form. Exceptionally free bloomer on long, strong stems. **\$1.50 each, \$15 per doz.**

Margaret Woodrow Wilson. I.D. An exhibition type of rare opalescent pink and creamy white. Full, immense, deep flowers borne freely on the best of stems. **50 cts. each, \$5 per doz.**

Marmion. I.D. This huge, beautiful flower of golden yellow, with bronze suffusion, always attracts attention. The florets are wavy and curl gracefully. A very free bloomer and vigorous grower. Should be in every collection. **50 cts. each, \$5 per doz.**

Mr. Edwards. F.D. The color of this lovely Dahlia is amaranth-pink with reverse of petals shaded plum. Flowers are very large and deep. **50 cts. each, \$5 per doz.**

Mrs. A. B. Seal. I.D. An immense bloom of the softest, richest shade of glowing old-rose, held well above the foliage on fine long stems. **\$1.50 each, \$15 per doz.**

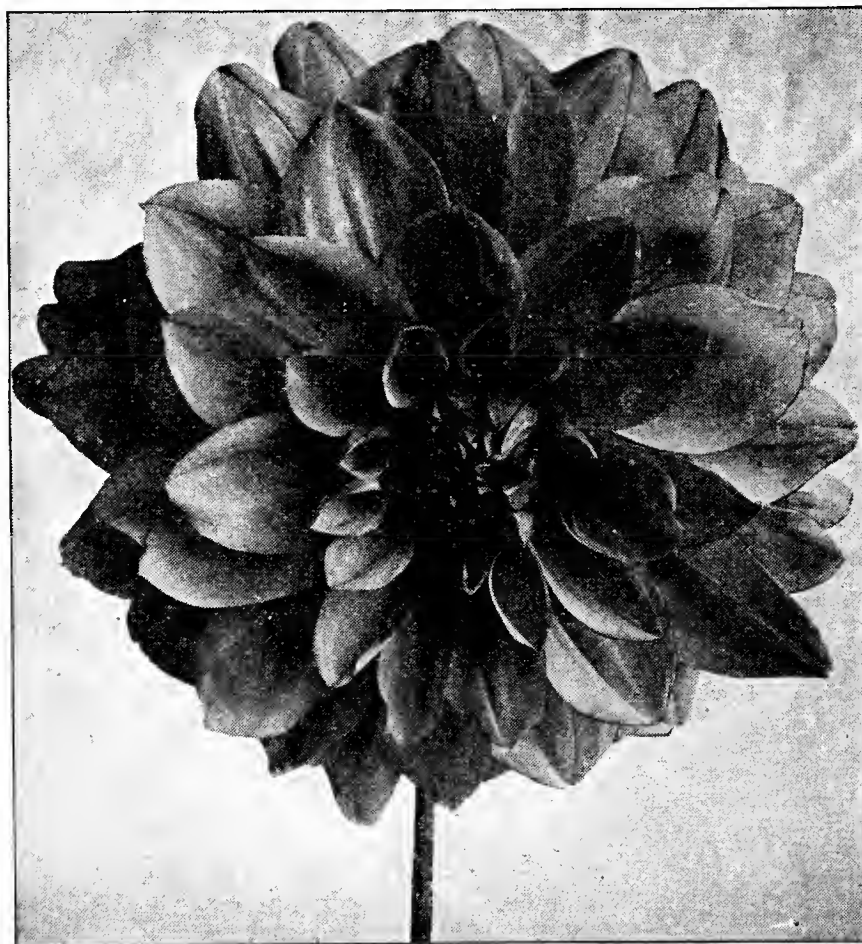
Mrs. I. de Ver Warner. I.D. A refined, deep mauve-pink Dahlia of perfect form, impressive on account of its size and beautiful orchid color. It is an abundant bloomer, splendid for exhibition and fine for the garden. **35 cts. each, \$3.50 per doz.**

Netawaka. I.D. The flowers are very large, borne freely on long stems. Color a beautiful orange-yellow, base shading to jasper-red, reverse of petals carmine, producing a lovely two-tone effect. **75 cts. each, \$7.50 per doz.**

Perella. F.D. A large Dahlia of bright rose-pink, shading to lavender. Free flowering, with long, strong stems, and a good keeper. **50 cts. each, \$5 per doz.**

Queen of the Garden Beautiful. F.D. An enormous primrose-yellow Dahlia. Free flowering; vigorous grower. **50 cts. each, \$5 per doz.**

Rose Fallon. F.D. One of the largest of the new Eastern introductions. A beautiful Decorative of pleasing shades of amber, russet, and salmon. The formation of the flower is perfect and the stems are excellent. Its foliage is very dark and fine. A good cut-flower variety. **50 cts. each, \$5 per doz.**



Decorative Dahlia, Sagamore



THREE FINE DAHLIAS

We offer the three following fine Dahlias for the home-garden, all splendid for cutting or exhibition: *Warren-Church*, our introduction of last year, now at a popular price; *Sunrise Trail*, which we predict will prove as popular as *Geisha*; and *Jersey's Triumph*, one of the finest of its color.

	Each	Doz.
1. Jersey's Triumph . . .	\$1.00	\$10.00
2. Sunrise Trail . . .	1.50	15.00
3. Warren-Church . . .	2.00	20.00

COLLECTION: One root of each of above 3 varieties **\$3.00**

Gladiolus Aristocrats

Heavenly Blue

Coryphee

Pfitzer's Triumph

*Paul
Pfitzer*

M. v. Konynenburg

Illustrations two-thirds natural size of flowers

FOR PRICES AND DESCRIPTIONS SEE GLADIOLUS, PAGES 135 TO 137

NEW AND RARE EXHIBITION DAHLIAS

Rose Glory. I.D. Color begonia-rose. A strong, free-blooming variety of excellent substance, suitable for either exhibition or cut-flower purposes. Will be very popular. **50 cts. each, \$5 per doz.**

Sagamore. F.D. Fine cut-flower of a light apricot-buff, shaded orange-buff toward the center. It has fine strong stems with splendid keeping qualities. **35 cts. each, \$3.50 per doz.**

Salmon Supreme. F.D. At our Trial-Grounds this splendid seedling of Jersey's Beauty proved a sensation. As the introducers of this variety, we feel justified in predicting that it will become a very popular Dahlia. The form and color are really wonderful. Its very large, glistening salmon-orange flowers are held proudly erect on the strongest of stems. Free flowering and a vigorous grower. This fine new Dahlia should be in every garden. **\$1 each, \$10 per doz.**

Sanhican's Gem. F.D. A shade of old-rose suffused with amber. The florets twist at the points, giving it the appearance of a Hybrid Cactus. A medium-sized flower with good stems. **50 cts. each, \$5 per doz.**

Sanhican Peach. I.D. Color is best described as the shade of a ripe California peach, with a real peach glow. Petals twist, resembling a stag horn. Stems are straight. Good habit of growth. **50 cts. each, \$5 per doz.**

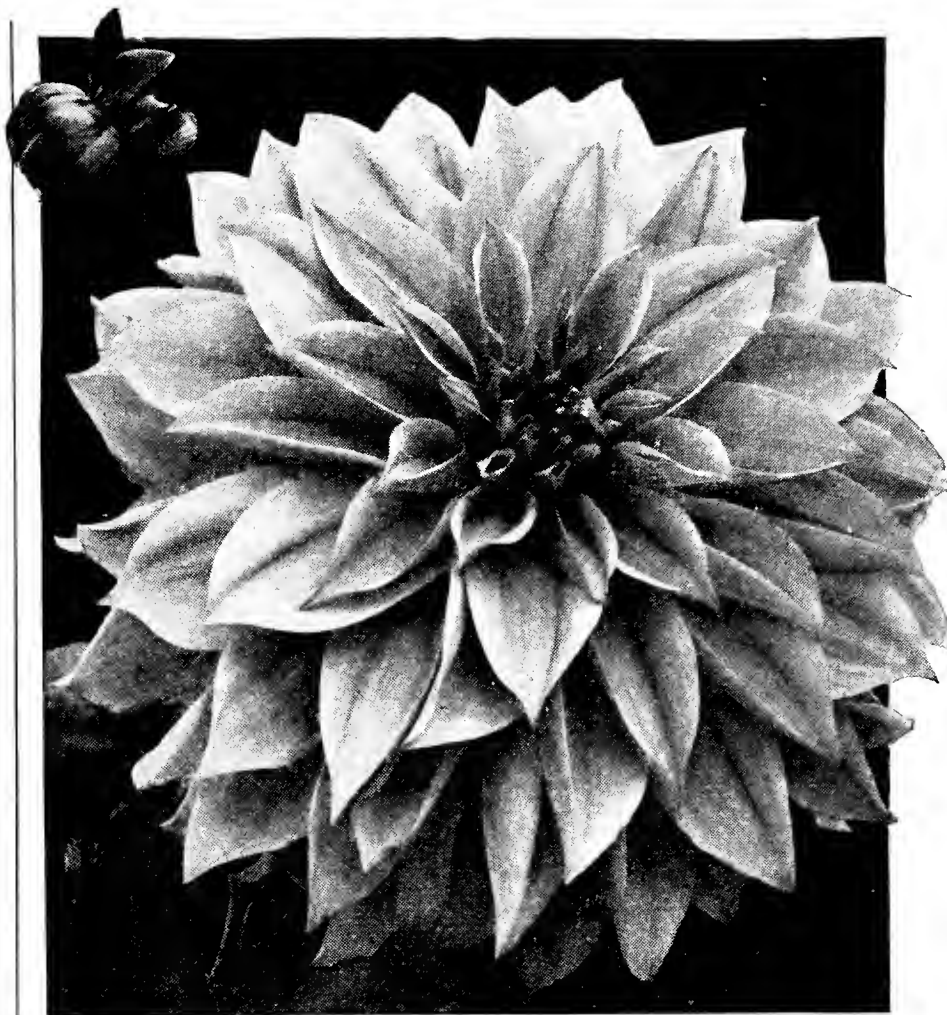
Shackamaxon. I.D. An orange-cinnamon Dahlia of splendid substance and keeping qualities, with long, narrow petals resembling a chrysanthemum. Good stems. **\$1 each, \$10 per doz.**

Spotswood Beauty. F.D. One of the most beautiful of the pink Dahlias. Clear Chatenay-pink, with a slight shading of yellow at base of petals. Flowers immense, borne on long stems high above the foliage. Free flowering. **\$1 each, \$10 per doz.**

Sunrise Trail. F.D. The beautiful blending of scarlet and gold held the attention of visitors to our gardens. An unusual, outstanding variety that should be in everyone's garden. Flowers are very large and held well above the foliage on long, strong stems producing an abundance of perfect blooms throughout the season. **\$1.50 each, \$15 per doz.**

The World. F.D. Rich deep rosy magenta overlaid violet, with silver shadings on edges of petals. A strong, thrifty grower and free bloomer. **\$1.50 each, \$15 per doz.**

Topaz. F.D. A free-blooming variety on long, strong stems. Bushes inclined to grow low, but not dwarf. Color is cream and amber; reverse of petals soft sunset pink. A prolific bloomer and good cut-flower. **50 cts. each, \$5 per doz.**



Decorative Dahlia, Jersey's Beauty. See page 130

Treasure Island. F.D. One of the finest autumn-shade varieties. Flowers bright apricot, with rose suffusion, held erect, with full centers throughout the season. 10-inch flowers are freely produced. A splendid acquisition. **75 cts. each, \$7.50 per doz.**

Trentonian. F.D. A very large Dahlia of a shade that instantly appeals—a fine blending of old-gold, amber, and coppery bronze, the whole forming a flower of beautiful brilliancy, with a reddish bronze center. The stems are long and strong. **50 cts. each, \$5 per doz.**

RETAIL VALUE
\$5.85

GARDEN FULL OF DAHLIAS FOR SPECIAL PRICE \$3.00

10 Distinct Exhibition Dahlias Sold in Collection Only

For the past sixteen years we have been offering 12 distinct Dahlias unnamed at a special price. We are pleased to announce that we have been able to improve this offering this year, due to a good crop, by making a special offer of Ten Distinct Named Varieties for **\$3**, which if bought separately would cost **\$5.85**.

Ellinor Vanderveer
Jane Cowl

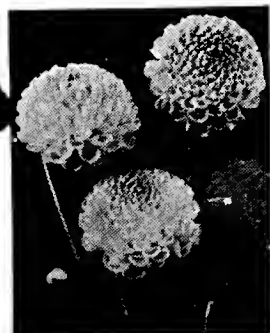
Jersey's Beacon
Jersey's Beauty

Kentucky
Marmion

Mr. Edwards
Queen of the Garden Beautiful

Rose Glory
Salmon Supreme

See pages 129, 130, and 133 for descriptions of these varieties.



Pompon Dahlias

POMPON DAHLIAS

We offer below a select list of these beautiful Pompon Dahlias, a miniature form of the Show Dahlias, having the same ball-like form, but much smaller in size. The plants are also smaller, of branching habit, and produce an endless profusion of flowers, which are invaluable for table decoration and boutonnieres.

Amber Queen. Amber.

Elizabeth. Bronze.

Glausse. Orange.

Golden Beauty. Bright yellow.

Little Herman. Red and white.

Madeline. Yellow and rose.

Prince Charming. Purple and white.

Rothout. Deep maroon, almost black.

Snowbird. Pure white.

Sunshine. Bright red.

Any of above Pompon Dahlias, 30 cts. each, \$3 per doz.
COLLECTION: One each of above 10 varieties, \$2.50

CHOICE CACTUS DAHLIAS

We offer below a choice list of Cactus Dahlias which have proved to bloom well under varying conditions. They are all excellent cut-flower varieties, as well as splendid varieties for garden decoration. While numerous Dahlia enthusiasts are growing the Decorative type of Dahlias on account of their massiveness, the Cactus Dahlia is still preferred by many flower-lovers on account of its artistic appearance.

Ambassador. S.C. An outstanding Dahlia at many of the Dahlia exhibitions, and considered by many as being one of the best and most artistic of recent Dahlia introductions. Its color is, perhaps, best described as a soft yellow at the center, with salmon, amber, and pink shadings, gradually deepening towards the tips. The flowers are of largest size and are set just right on perfect stems. A strong grower and free bloomer. **\$1 each, \$10 per doz.**

Cigarette. S.C. Very fine scarlet, tipped white. A free-blooming variety with flowers held erect on long, stiff stems. **50 cts. each, \$5 per doz.**

Countess of Lonsdale. S.C. The best-known and the most desired of all the Cactus Dahlias. It is of the older Hybrid Cactus type, with broad, straight, pointed petals of a deep salmon-red color, and is a very abundant and continuous bloomer. **35 cts. each, \$3.50 per doz.**

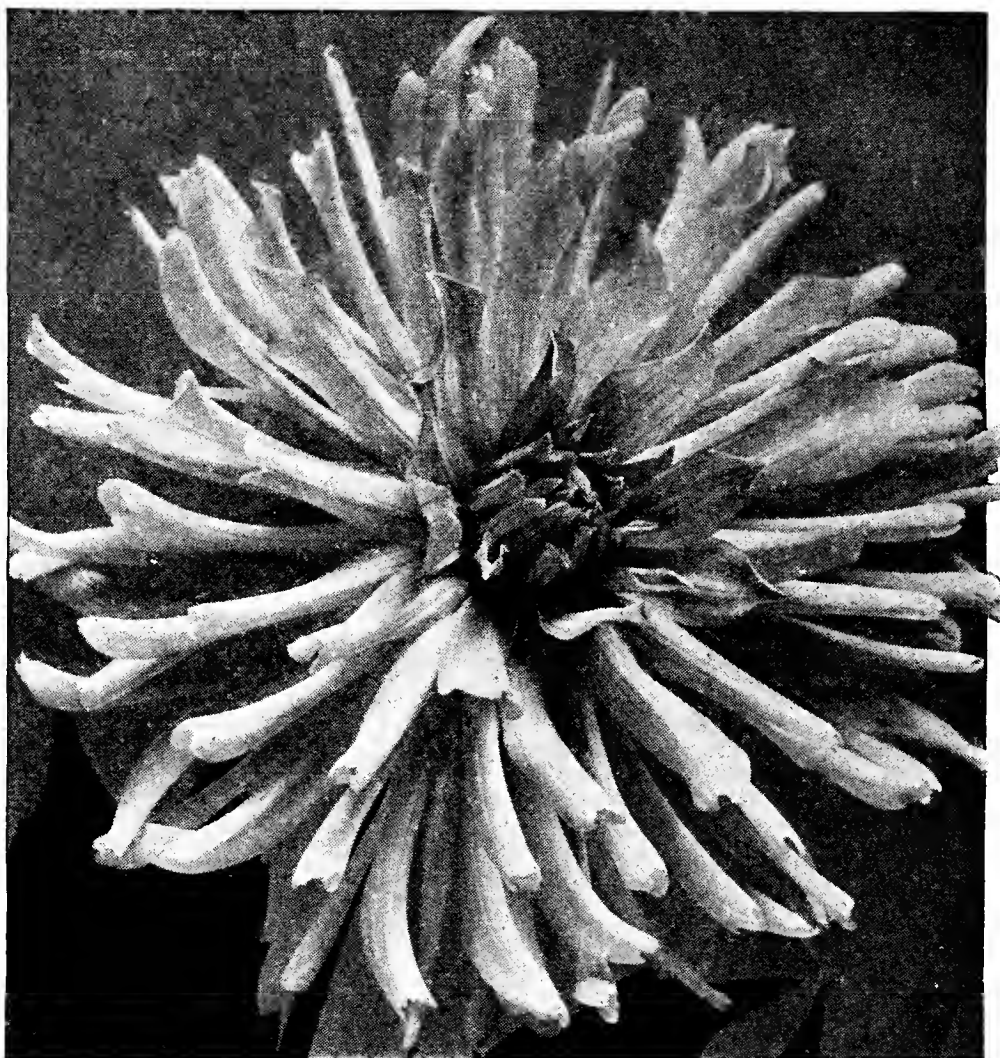
Daddy Butler. S.C. Color, attractive combination of rosy carmine, with lighter reverse. An early and free bloomer on perfect stems. **75 cts. each, \$7.50 per doz.**

Ethel T. Smith. Semi-C. Large flowers held erect on splendid stems; lemon-yellow shading to white. Very popular. **50 cts. each, \$5 per doz.**

F. W. Fellowes. S.C. We consider this one of the best Cactus varieties ever raised. The flowers are of unusual size for the long, narrow-petaled type, and of intense coral-red color with deeper suffusion toward the center. A leader in this type at all Dahlia exhibitions or for the garden. Excellent as a cut-flower. **75 cts. each, \$7.50 per doz.**

Elkridge. Semi-C. This large, pure white variety is of fine form and great substance. It flowers very freely on long, strong stems. Has won many prizes. **75 cts. each, \$7.50 per doz.**

Mrs. Edna Spencer. S.C. This Hybrid Cactus Dahlia has flowers of a delicate and exquisite shade of orchid-pink. Very beautiful and of good formation with strong stems. **50 cts. each, \$5 per doz.**



Cactus Dahlia, Mrs. Edna Spencer

Red Cross. S.C. Immense, brilliant scarlet and gold flowers, held aloft on very long, straight stems. Great prize-winner. **50 cts. each, \$5 per doz.**

Roycroft. Semi-C. Large, finely formed Semi-Cactus of cinnamon-buff, deepening to russet. Very prolific bloomer. Fine stems. Vigorous grower. **50 cts. each, \$5 per doz.**

NEW CENTURY SINGLE DAHLIAS

We offer below a list of the best varieties of these Dahlias. They are very popular for garden decoration or for cutting.

Crimson Giant. Very large, deep crimson flower of fine form. **35 cts. each, \$3.50 per doz.**

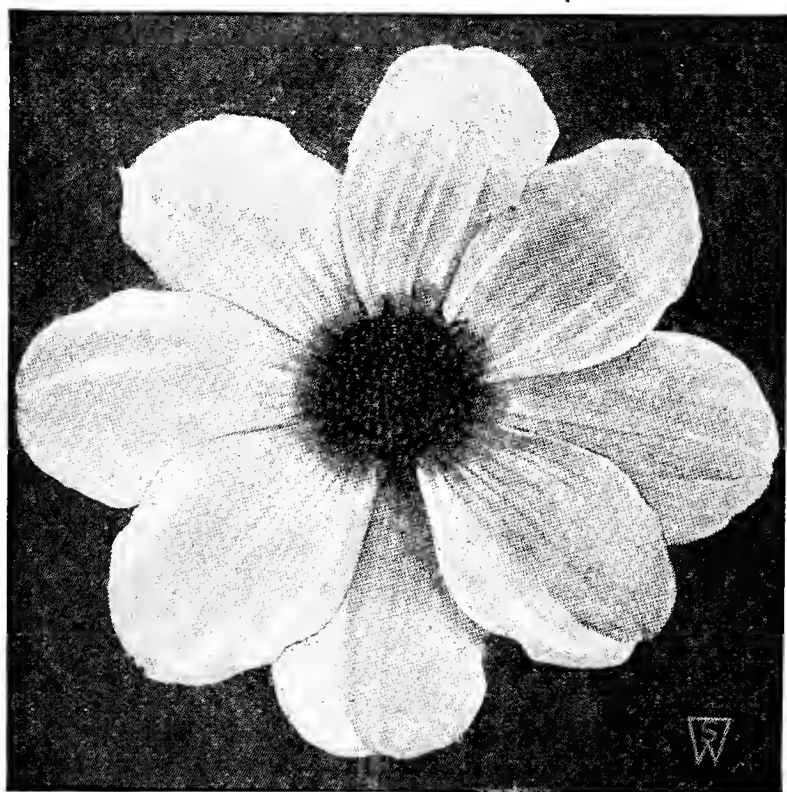
Lavender Gem. Pure mauve-color, slightly veined silvery white. Wonderfully attractive and a splendid keeper. **35 cts. each, \$3.50 per doz.**

Jazz Century. Primrose, flushed bronzy red. **75 cts. each, \$7.50 per doz.**

Rose-Pink Century. Flowers 6 inches and over in diameter, of a clear rose-pink color. A strong grower with long, stiff stems. Fine for cutting. **35 cts. each, \$3.50 per doz.**

Snowflake. A large, pure white variety, with golden yellow center. Extremely dainty. Very free bloomer. **35 cts. each, \$3.50 per doz.**

Tango Century. One of the loveliest bronzy yellow Singles. Good stems. Free bloomer. **35 cts. each, \$3.50 per doz.**



Single Dahlia, Rose-Pink Century

COLLECTION: 1 each of 6 Century Dahlias, \$2

GLADIOLUS

*The Cream of the World's
Best Varieties*

MOST POPULAR OF ALL SUMMER-FLOWERING BULBOUS PLANTS

Few of the Summer-flowering Bulbous Plants have met with the same increased interest that Gladiolus have in the past ten years. Their adaptability for the garden or cut-flower use during summer and autumn months is not surpassed by any other bulbous plant.

Care of Dormant Bulbs. On Gladiolus corms which our clients desire to hold for successive planting from May 1 until July, it is suggested that those required for early summer planting be kept in air-tight containers in a cool place. Some of our patrons who plant Gladiolus July 15 for September flowers, order these bulbs in the springtime. These are stored in our cold-storage warehouse in April and are kept in first-class condition for planting in the summer. In the latitude of New York, July 15 is the latest advisable time to plant.

All Bulbs furnished at the dozen rate, 25 at the 100 rate

AIDA. Large, striking, dark blue flowers with two small red-lilac blotches, like the yellow markings of Baron Hulot, and earlier than the well-known Halley. It is one of the best propagators and in our gardens 75 per cent. of the bulblets flower every year. **\$5 per doz., \$35 per 100.**

AMERICA. Delicate lavender-pink flowers of large size, borne on strong stems, and well placed; splendid habit. Very popular cut-flower variety. **50 cts. per doz., \$4 per 100.**

ANNA EBERIUS. Dark velvety purple, throat deeper shade; very large flowers on tall, fine spikes. A very fine variety in an unusual color. **75 cts. per doz., \$5 per 100.**

AVE MARIA. Has seven or eight large, light blue flowers with small purple blotches, open at one time, all well placed on the strong spike. Noble in form and size. **\$2.50 per doz., \$20 per 100.**

BARON HULOT. Rich, royal violet-blue. One of the finest of its color. Flowers are medium in size, well placed, and borne on strong spikes. A variety used for contrasting with the pale and deep yellow sorts. **\$1 per doz., \$7 per 100.**

BELINDA. Long, straight spikes, well filled with delicate, creamy yellow flowers. An excellent variety for cutting and promises to be profitable commercially for that purpose. **\$1 per doz., \$7 per 100.**

BERTY SNOW. A striking, handsome prize-winner in many of the Gladiolus shows this past season. It is one of the finest soft rosy lavender-colored Gladiolus. The flowers are very large, of excellent substance and placement on long, strong spikes. Eight or more flowers open at one time. A great exhibition variety. **\$1.50 per doz., \$10 per 100.**

BETTY NUTHALL. A warm, light coral with pale orange throat and a light feathering of carmine. The flowers are often 6 inches across, of splendid substance, and are well placed on tall, strong spikes. One of the best Gladiolus of the later introductions. **\$1.50 per doz., \$10 per 100.**

CHARLES DICKENS. This purple-violet variety grows 5 feet high and has extra-strong, graceful spikes with ten to twelve wide-open flowers at a time. It is in great demand and is a splendid variety. **\$1 per doz., \$7 per 100.**

CHICAGO WHITE. One of the best of the standard varieties. White, with the lower petals marked with lavender stripes. Early flowering. **50 cts. per doz., \$4 per 100.**

COMMANDER KOEHL. Brilliant scarlet-blood-red, with large flowers on a tall, strong stem. This is a new introduction from Europe and is classed as one of the finest red varieties in existence. It grows well under all weather conditions. **\$2.50 per doz., \$20 per 100.**

CORYPHEE. Invariably produces eight to ten large, well-formed flowers of the purest pink imaginable. A splendid variety and a favorite at many shows. **\$5 per doz., \$35 per 100.**

CRIMSON GLOW. Deep, brilliant crimson, overlaid with darker shades; lower petals blotched with deep velvety crimson. The flowers are immense and plentifully spread on the tall graceful stem. A very striking variety with a very vigorous constitution. **50 cts. per doz., \$4 per 100.**

DR. F. E. BENNETT. Deep peach-red, with flame-scarlet suffusion, lip speckled ruby and white. Large flowers borne on tall, stiff stems. The general effect of the flower is red and it is considered the finest of its color. **85 cts. per doz., \$6 per 100.**

E. J. SHAYLOR. Tall, very strong plants and large blooms of a beautiful deep rose-pink. This variety has recently been awarded a certificate of merit in London. **75 cts. per doz., \$6 per 100.**

EVELYN KIRTLAND. The flowers, of strong substance, are a beautiful shade of rosy pink, darker at the edges, fading to shell-pink at the center with brilliant scarlet blotches on the lower petals, the entire flower showing a glistening, sparkling luster. Very tall spike. Extra-fine form and color. **85 cts. per doz., \$6 per 100.**

FORTUNA. Fourteen or fifteen large, perfectly placed flowers of pure, soft yellow on each spike. The earliest yellow variety. **\$5 per doz., \$35 per 100.**

GOLDEN DREAM. A fine addition to the yellow Gladiolus, and particularly suitable for cut-flowers. It is rather similar to Golden Measure, and, like that variety, grows tall and straight, with many large flowers open at the same time. The blooms are pure golden yellow, of a clearer shade than those of Golden Measure. **\$1 per doz., \$7 per 100.**

GOLDEN MEASURE. A deeper shade of yellow, heretofore unknown in the large-flowering Gladiolus. Several of these gorgeous flowers in bloom at once on a tall stem give a most magnificent effect. **\$1 per doz., \$7 per 100.**

GRETCHEN ZANG. A beautiful rose tone of pink, blending toward scarlet on the lower petals. A variety of great merit on account of its splendid substance and size. **75 cts. per doz., \$5 per 100.**

HALLEY. A variety that is largely grown on account of its earliness. The flowers are large in size, of beautiful salmon-pink, with creamy white blotch in throat. One of the earliest-blooming varieties in our list. **50 cts. per doz., \$4 per 100.**

HEAVENLY BLUE. The flowers are aniline-blue, as its name indicates. A real, first-class variety with very long spikes, having more than ten blooms open at a time. **\$3 per doz., \$20 per 100.**

HERADA. Blooms of immense size on tall, straight spikes. The large blooms are pure mauve, glistening and clean, with deeper markings in the throat. **75 cts. per doz., \$5 per 100.**

HERBSTZAUBER (Autumn Fascination). Petals of wonderful orange-salmon. It grows very tall, with beautiful, open flowers, well placed on a long, strong spike. **\$2 per doz., \$15 per 100.**

JONKHEER VAN TETS. Strong five-foot spikes with eight or more immense pure white flowers open at once. No marking or throat blotches. **\$4 per doz., \$30 per 100.**

KIRCHHOFF'S VIOLET. This vigorous-growing variety is indeed welcome among the blue-purple sorts. It is thoroughly reliable, having been grown in all sections of the country, and has proved to be unfailing in its production of fine spikes of rich velvety blue blooms. **\$2 per doz., \$15 per 100.**

LOS ANGELES. Beautiful shrimp-pink, with glowing orange-carmine blotch in throat. Tall and graceful; blooms for a long time. A very excellent variety for cutting, being in constant demand by florists. **75 cts. per doz., \$5 per 100.**

MARMORA. Lavender to lavender-gray with petunia-colored blotch. Flowers very tall, large, well arranged on tall, strong stems, with from eight to twelve open at once. One of the best Gladiolus ever introduced. **\$2 per doz., \$15 per 100.**

MARY PICKFORD. An extraordinary flower and spike of delicate creamy white. Throat sulphur-yellow; stem and calyx also white. **75 cts. per doz., \$5 per 100.**

MINUET. Beautiful clear, light lavender. Four to six large, heavily textured blooms open at once on a good, strong stem. Considered by most growers as the last word in a light lavender Gladiolus. **\$2 per doz., \$15 per 100.**

MOORISH KING. A new Gladiolus that is unusual in almost every respect. Its color is a remarkable pure dark velvet mahogany-maroon, with foliage that is also dark and of striking appearance. The flowers are large, well placed on tall stems, and of almost leather-like substance that makes them last considerably longer than the average cut Gladiolus. **\$7.50 per doz., \$50 per 100.**

MRS. ANNA PFITZER. Stunning creamy white flowers, 5 inches across, shaded with soft yellow and pale green, but without throat-markings. Upwards of twelve blooms open at once on handsome, symmetrical spikes. **\$5 per doz., \$35 per 100.**

MRS. DR. NORTON. Delicate cream and pink, deepening towards the edges; sulphur-yellow center. Flowers widely expanded. A beautiful variety much admired at Gladiolus exhibitions. **85 cts. per doz., \$6 per 100.**

MRS. F. C. HORNBERGER. Snow-white, with just a faint flush of ivory, or perhaps a tint of pink, only noticeable on careful examination. It is a great improvement over existing white varieties, with large, ruffled flowers that have aided it greatly in attaining widespread popularity. **\$2 per doz., \$15 per 100.**

MRS. FREDERICK C. PETERS. This beautiful new variety, somewhat resembling the orchid in coloring, is very desirable for fine gardens. It is a rose-lilac, with crimson blotch bordered white on lower segments. **85 cts. per doz., \$6 per 100.**

MRS. FRANCIS KING. Brilliant flamingo-pink, blazed with vermilion-red. Popular variety on account of its attractive color. Splendid for mass effects. **50 cts. per doz., \$4 per 100.**

MRS. FRANK PENDLETON. Salmon-pink which extends to reverse side of the petals as well as in the center, with a rich, deep maroon blotch on the three lower petals. **50 cts. per doz., \$4 per 100.**

GLADIOLUS

*Everybody's Flower Because
Everybody Can Grow Them*

CULTURE.—Any good garden soil will grow Gladiolus well, provided they are planted in a sunny location. Bulbs should be planted 4 inches deep and at least 6 inches apart; frequent cultivation with a hoe or weeder, around the base of the plant, to prevent the soil from becoming hard and dry, is advisable. Where desired for garden decoration or exhibition, we advise plants being staked after attaining the height of 1 foot. (We offer light green dyed bamboo canes, which are excellent for this purpose.) Water copiously, and as the flower-buds begin to form, apply liquid manure for the best results.



Field of Gladiolus growing on our Long Island Farms. Few soils produce Gladiolus bulbs of stronger vitality than Long Island soil does

MRS. GERTRUDE PFITZER. Light China-blue, with violet center. This Gladiolus has many well-formed flowers open at one time on a beautiful spike and deserves the consideration of every collector. Stock is very limited. **\$5 per doz., \$35 per 100.**

MRS. LEON DOUGLAS. Enormously large flowers of beautiful begonia-rose, striped with flame-scarlet, the lower petals pale lemon, speckled ruby. The tall, strong stems produce several side shoots. Considered one of the largest Gladiolus in existence. **85 cts. per doz., \$6 per 100.**

MRS. VAN KONYNENBURG. The leader in its color—light blue. It has an excellent spike, beautifully formed flowers, is free flowering and a very good propagator. Surpasses all others of its color. **\$1.50 per doz., \$10 per 100.**

NANCY HANKS. Rich apricot, shaded orange-pink. The pretty flowers are nicely arranged on a sturdy stem, with six or more open at one time. They stand up well under the hottest summer sun. **\$1.50 per doz., \$10 per 100.**

NIAGARA. Soft primrose, faint lines of lilac in the throat, with purple stamens and pale carmine stigmas which add to the attractiveness of the variety. Flowers are large in size, borne on tall spikes. **75 cts. per doz., \$5 per 100.**

OTHELLO. Very peculiar color—bright violet-purple, with very small, deeper-colored blotches. Blooms are well spaced on the spike. **\$2 per doz., \$15 per 100.**

PANAMA. Similar in type to America, but of a deeper shade of pure rose-pink. The flowers are large in size and well placed on tall, strong spikes. **75 cts. per doz., \$5 per 100.**

PAUL PFITZER. Brilliant velvety purple—an attractive new color. The placement of the blooms on the spike is almost perfect. Strong, healthy grower. **75 cts. per doz., \$5 per 100.**

PEACE. Few varieties have become as popular as Peace. The general effect of the flower is white, with a pale lilac feathering on the interior petals. Large, well placed and borne on tall, strong spikes. **75 cts. per doz., \$5 per 100.**

PFITZER'S TRIUMPH. Unquestionably one of the largest and finest Gladiolus ever introduced and will be a leader for years. The blooms are at least 6 inches across, bright salmon-orange, with small velvety red blotches. **\$2 per doz., \$15 per 100.**

PHANOMEN. A very pleasing combination of the softest pink and finest yellow—both the loveliest shades conceivable. We urge everyone to try this variety. **75 cts. per doz., \$5 per 100.**

PURPLE GLORY. Deepest velvety maroon with almost black blotches. Large, ruffled flowers on very tall, sturdy stems. A real giant in all respects. **\$1.50 per doz., \$10 per 100.**

REV. EWBANK. A beautiful light porcelain-blue, giving the effect of an almost solid color; deep blue blotch on lower petals; early and good-sized flowers. **\$2 per doz., \$15 per 100.**

ROSE ASH. Peculiar soft, old-rose tones, fading to ashes of roses on the outer edges of petals. Very unique in coloring and greatly admired. If you have a room with mahogany furniture and mulberry hangings, this is an ideal indoor setting for Rose Ash. **85 cts. per doz., \$6 per 100.**

SCARLET WONDER. Few Gladiolus are as strong growers as this splendid new variety. The foliage is a rich deep green and the plant attains a height of 4 to 5 feet. The flowers are large, many open at one time, and of a rich, velvety scarlet. **85 cts. per doz., \$6 per 100.**

SCHWABEN. Pure canary-yellow, with a carmine blotch deep in the throat which aids in detracting from its uniformity in color. Flowers are wide open, large in size and well placed on strong spikes of medium height. **75 cts. per doz., \$5 per 100.**

STUTTGARDIA. Five or six brilliant orange-scarlet flowers, 5 inches across, open at once on long, strong spikes. One of the best scarlet varieties. **\$5 per doz., \$35 per 100.**

TROUBADOUR. Large, impressive, dark violet flowers, beautifully arranged on the stem. Ten to twelve are open at one time, and even with this mass of flowers the stalk is strong enough to hold it erect. **\$3 per doz., \$20 per 100.**

VEILCHENBLAU. Fine violet-blue flowers with pansy-purple blotches. Stock scarce and in great demand. **\$3 per doz., \$20 per 100.**

VIOLET GLORY. Large flower, rich self-color of deep violet, deeper throat; with ruffled petals. Its attractive color has made it a very popular variety. **\$1.50 per doz., \$10 per 100.**

VIRGINIA. Large, massive flowers of flaming scarlet, many opening at one time. A planting of this variety makes a gorgeous display of dazzling red. **75 cts. per doz., \$5 per 100.**

W. H. PHIPPS. Superabundance of bloom and remarkable color have combined to bring this variety rapidly to the fore. The huge flowers, perfectly placed on a tall stem, are clear La-France-pink, overlaid with glowing salmon-rose, frequently speckled with ruby. **\$1 per doz., \$7 per 100.**

WILHELM PFITZER'S MEMORY. Handsome, 6-foot spikes of pure, snow-white flowers. So good that it was chosen to perpetuate the name of the great horticulturist. **\$2 per doz., \$15 per 100.**

AMERICAN HYBRIDS MIXED

In preparing this mixture of Gladiolus, we have included some surplus named sorts, and have endeavored to cover all the conceivable colors that obtain in this beautiful family of flowers. The mixture is prepared from the finest varieties, and has with it a popular price so as to encourage the liberal planting of them. The sorts used in the mixture are well matured and good growers; they are excellent for cut-flower purposes or for planting in mixed borders, and we offer them at **50 cts. per doz., \$4 per 100, \$38 per 1,000.**

Semesan is a good disinfectant for all Bulbs and Tubers. Dust your Gladiolus with it at planting time. It protects against fungus and disease. 2 ozs. 50 cts., 1 lb. \$2.75, 5 lbs. \$13.

New and Rare Primulinus Hybrids

To the flower-lover who has become interested in the Primulinus Hybrids and knows them, the following varieties will have a strong appeal.

Primulinus Hybrids are distinguished mainly for their fine and various shades of yellow, orange, and saffron tones. The flowers are borne on graceful stems and when cut are of splendid decorative value.

The commercial florists have come to recognize this wonderful new type of Gladiolus. The pure self-tones of the flowers suggest refinement. They are splendid growers and are excellent for mass effect.

Altair

Saffron-salmon. A very tall grower and one of the earliest to bloom, frequently producing two flower-spikes. **85 cts. per doz., \$6 per 100.**

Alice Tiplady

Tall, straight spike with ten to twelve blooms. Immense flowers of brilliant orange-salmon, with golden throat. A very showy, magnificent flower. A few spikes of this placed in a tall vase makes a very attractive and imposing exhibit. The general color of the flower is magnificent under artificial light. **75 cts. per doz., \$5 per 100.**

Dorothy Wheeler

Awarded Silver Medal by Massachusetts Horticultural Society in 1921. It is a most beautiful rose-pink. Slightly ruffled with lighter throat. Plant tall and many flowers open at once. **85 cts. per doz., \$6 per 100.**

Ethelyn

Beautiful orange-yellow, similar to Orange Queen, but with a clear lip instead of orange lines. One of the best Primulinus. **85 cts. per doz., \$6 per 100.**

Maiden's Blush

A very popular variety on account of its beautiful shell-pink color and earliness. Splendid for forcing. **75 cts. per doz., \$5 per 100.**

Ming Toy

Deep showy buff with yellow throat. Large flowers on tall, strong stems. A very pleasing variety. **85 cts. per doz., \$6 per 100.**

Orange Queen

Purest apricot of a very warm tint; large, open flowers on good stem. Justly considered one of the very choicest novelties in Primulinus Hybrids. **85 cts. per doz., \$6 per 100.**

Salmon Beauty

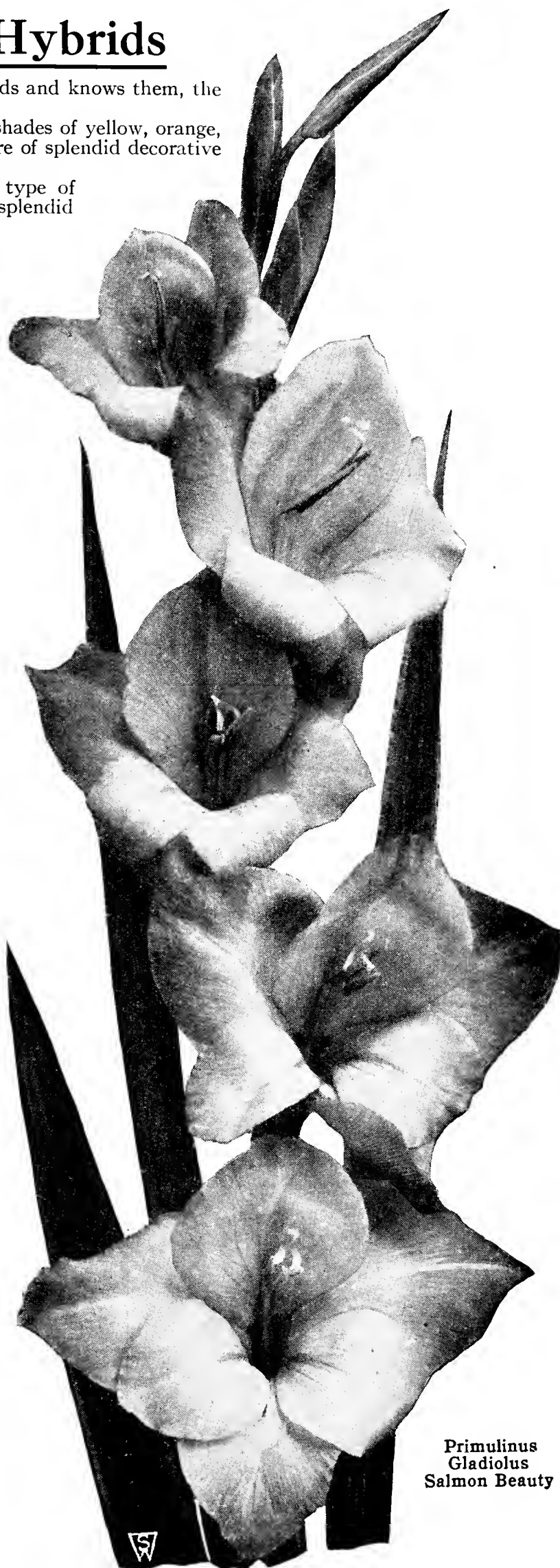
A very large and showy flower; in fact the last two or three seasons it has been pronounced the best Primulinus by the Massachusetts Horticultural Society. The color is deep orange-salmon with a rich salmon-yellow throat. **85 cts. per doz., \$6 per 100.**

Souvenir

Of the many shades and tints in this beautiful type of Gladiolus, we consider Souvenir as being the best pure yellow variety. **75 cts. per doz., \$5 per 100.**

Primulinus Hybrids Mixture

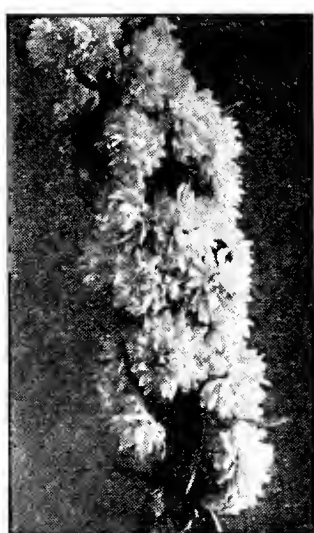
When the original Primulinus was first grown in this country, many Gladiolus-growers were impressed with the graceful habit of the plant and flowers. They were small and somewhat hooded. The original species, as they were first introduced from South Africa, created interest among these growers mainly for their habit and the beautiful colorings of the flowers. They proceeded to cross them with the finest of the large-flowering Gladiolus and the resultant crosses brought forth a really beautiful acquisition. The flowers were larger, more open, retaining their graceful placement on the spikes and also their beautiful range of artistic colors. Our hybrids range in color from pale sulphur-yellow-apricot to the deepest chrome-yellow and excellent shades of pink, orange, and scarlet. We are pleased to offer this splendid mixture and suggest that our patrons try some, as for artistic decorations these flowers borne on long slender spikes are wonderful. **50 cts. per doz., \$4 per 100, \$38 per 1,000.**



Primulinus
Gladiolus
Salmon Beauty



Abelia grandiflora



Flowering Almond



Althea



Deutzia gracilis

Hardy Flowering Shrubs

Shrubs are of great importance for the ornamentation of home grounds. They have many uses; some are valuable as cut-flowers, while others are as decorative as any ornamental foliage plant. They may be used as a dividing-line between the flower and vegetable-garden, or between the lawn and the uncultivated land beyond, as a background for the flower border, and for hiding an unsightly building, fence or foundation. Soil where they are to be planted should be well spaded and enriched with bone-meal. Unless a very immediate effect is required, sufficient space should be allowed between them to permit of full development—3 feet for dwarf varieties and 5 feet for the taller ones. As a general rule, shrubs should be thinned or pruned just after they have finished flowering, and then only slightly, just enough to keep them in nice, symmetrical shape.

NOTICE.—The best time to plant is from early spring, when ground can be worked, until about May 15, the earlier the better.

Abelia grandiflora

This, to our minds, is one of the finest of all the evergreen shrubs, and should be in every foundation planting. The habit and foliage are distinctly ornamental, and it blooms almost continuously from early summer until frost. The flowers are white, tinted lilac. Matured height 3 to 4 feet. **Strong 2 to 3-foot plants, \$1 each, \$10 per doz., \$75 per 100.**

Almond, Flowering (Amygdalus)

This beautiful shrub is one of the loveliest. The flowers are borne on its slender branches during May, and are very fragrant. 5 to 6 feet high.

Pink. Double-flowering; pink.

White. Double-flowering; white.

Strong plants, 2 to 3 feet, 75c. each, \$7.50 per doz.

Althea (Rose of Sharon)

The Altheas are among the most valuable of our tall, hardy shrubs on account of their late blooming, which is from August to October, a period when few shrubs are in flower. We offer in four distinct colors. 10 to 12 feet high. **Red, Pink, White, and Purple. Strong 3 to 4-foot plants, 50 cts. each, \$5 per doz.**



Forsythia viridissima

New Red-Leaved Japanese Barberry

The finest shrub novelty of recent years. Identical with the Green-leaved Barberry, except that the foliage is a rich, lustrous, bronze-red which becomes more vivid as the season advances, changing to brilliant orange, scarlet and red shades in the fall. However, it should be planted in full exposure to the sun. **Strong 1½ to 2-foot, 2-year-old plants, 75 cts. each, \$7.50 per doz.**

Buddleia variabilis Veitchiana

Butterfly Shrub; Summer Lilac

One of the most desirable of summer-flowering shrubs, beginning to bloom in July and continuing until cut down by severe frost. The flowers are of a pleasing shade of violet-mauve, and are borne in dense, cylindrical spikes from 12 to 15 inches in length by 3 inches in diameter. The plant dies down in winter, coming up the following spring. 5 to 6 feet high. **Strong 3 to 4-foot plants, 50 cts. each, \$5 per doz.**

Deutzias

Gracilis. A great favorite, dwarf, covered with spikes of pure white flowers in early summer. **Strong 1½ to 2-foot plants, 50 cts. each, \$5 per doz.**

Pride of Rochester. A fine, tall-growing, double, white-flowering variety. 9 to 10 feet high. **Strong 3 to 4-foot plants, 50 cts. each, \$5 per doz.**

Dogwood (Cornus)

Florida. Handsome, small trees covered with myriads of large, four-petaled white flowers in spring; beautiful, glossy foliage. 15 to 20 feet high. **3 to 4 feet, \$2 each, \$20 per doz.**

Florida rubra. Like the preceding, except that the flowers are bright, shiny pink. Very rare and valuable and a decided acquisition. 15 to 20 feet high. **3 to 4 feet, \$4 each, \$40 per doz.**

Sibirica (Siberian Dogwood). This type of Dogwood differs from the above in that it is distinctly shrubby in growth. It is a strong-growing variety with small white flowers. The branches are crimson colored in winter. 8 to 10 feet high. **Strong 3 to 4-foot plants, 50 cts. each, \$5 per doz.**

Forsythia

A very decorative shrub with bright golden yellow, star-shaped flowers which burst into bloom at the beginning of spring while the bush is otherwise bare.

Suspensa (Weeping Golden Bells). A tall shrub of willowy growth, the branches gracefully arching and covered with golden yellow bells in early spring. 4 to 6 feet high.

Viridissima (Golden Bells). Similar to the above but of more erect habit. 7 to 8 feet high.

Strong plants of either of the above, 50 cts. each, \$5 per doz.

Honeysuckle

Bush Honeysuckle (Lonicera)

We offer two varieties of the Bush Honeysuckle. They are splendid for lawns or borders. 9 to 10 feet high.

Tatarica. Pink flowers, contrasting with the foliage. Blooms in June.

Tatarica alba. White form of the above.

Either of the above, strong 3 to 4-foot plants, 75 cts. each, \$7.50 per doz.

Hydrangea

We offer two varieties of this, perhaps the most popular of flowering shrubs.

Arborescens grandiflora (Snowball Hydrangea). This magnificent, perfectly hardy American shrub has snow-white blossoms of largest size. One of its most valuable characteristics is its coming into bloom just after the passing of all the early spring-blooming shrubs. 4 to 5 feet high. **Strong 2 to 3-foot plants, 75 cts. each, \$7.50 per doz.**

Paniculata grandiflora. The flowers, which are borne in dense, pyramidal panicles a foot long, in greatest profusion, are white when they first open but gradually change to rose color. 8 to 9 feet high. **Strong 2 to 3-foot plants, 75 cts. each, \$7.50 per doz.**

Kerria (Corchorus)

Japonica flore-plena. Attractive golden yellow flowers are borne continuously from June to October. 4 to 5 feet high. **Strong 2 to 3-foot plants, 50 cts. each, \$5 per doz.**



Pyrus japonica



Spiraea Van Houttei



Weigela, Eva Rathke

Kolkwitzia amabilis

Beauty Bush

Mature plants of this new introduction from China appear like a cloud of beautiful, delicate pink when in flower. 4 to 6 feet high. **Strong 2 to 3-foot plants, 75 cts. each, \$7.50 per doz.**

Malus (Flowering Crab)

Bechtel's Double-Flowering. The Flowering Crab is valued not only for its beautiful blossoms but for the handsome fruits, which in the fall are attractive to us and to the birds as well, who relish them greatly as a winter food. In the spring a well-grown plant is a mass of bloom, a wonderful sight in any garden. **Strong 3 to 4-foot plants, 75 cts. each, \$7.50 per doz.**



Kolkwitzia amabilis

Philadelphus (Mock Orange)

This old-fashioned sweet-scented shrub has long been a close rival of the lilac in popularity. **Coronarius.** This is a popular tall variety; large white flowers. 10 feet high. **Strong 3 to 4-foot plants, 75 cts. each, \$7.50 per doz.**

Pyrus (Cydonia) japonica

Flowering Quince

A very showy shrub of medium height; blooms profusely in early spring; flowers dazzling scarlet. Makes an excellent hedge plant. 4 to 5 feet high. **Strong 2 to 3-foot plants, 75 cts. each, \$7.50 per doz.**

Prunus

We offer two varieties of the Flowering Plum. **Pissardi** (Purple-leaved Plum). A dwarf shrub covered with single white flowers in spring. When they first appear the leaves are crimson, changing to rich purple. 12 to 15 feet high.

Triloba (Double-flowering Plum). An interesting shrub, bearing in early spring semi-double, delicate pink flowers. 7 to 8 ft. high. **Prices on above, 2 to 3-foot plants, 75 cts. each, \$7.50 per doz.**

Serrulata (Japanese Flowering Cherry). The blossoms of these trees appear in April. The sudden transition from bleak winter to spring, with a most gorgeous display of blossoms, is startling, and the beauty of the trees a sight to behold.

Pink. Double-flowering; pink.

White. Double-flowering; white.

Strong 2 to 3-foot plants, \$2 each, \$20 per doz.

Syringa or Lilac

We offer two of the common varieties of Lilac. **Common Purple** (*Syringa vulgaris*). Purple. **Common White** (*S. vulgaris alba*). White. **2 to 3 feet, 50 cts. each, \$5 per doz.**

Spiraea

Anthony Waterer. Color bright crimson. It is of dwarf, dense growth, never exceeding 30 inches in height and blooms the entire summer and fall. 3 feet high. **1 1/2 to 2-foot plants, 75 cts. each, \$7.50 per doz.**

Van Houttei. It is of compact habit and a beautiful ornament for the lawn when in flower; the white blooms almost entirely cover the foliage. 8 feet high. **3 to 4-foot plants, 75 cts. each, \$7.50 per doz.**

Symphoricarpos

Racemosus. A dwarf shrub with pink flowers and white berries. 5 to 6 feet high. **3 to 4-foot plants, 50 cts. each, \$5 per doz.**

Vulgaris. Similar to the above, but with bright red fruit. 4 to 5 feet high. **3 to 4-foot plants, 50 cts. each, \$5 per doz.**

Viburnum

Plicatum (Japan Snowball). The perfect balls of pure white flowers are borne in great profusion in May. 7 to 8 feet high. **2 to 3-foot plants, 75 cts. each, \$7.50 per doz.**

Opulus (High-Bush Cranberry). White flowers in June; bright scarlet berries in autumn. 9 to 10 feet high. **2 to 3-foot plants, 75 cts. each, \$7.50 per doz.**

Weigela

These are among the most popular flowering shrubs, covered in May and early June by their large, trumpet-shaped flowers.

Eva Rathke. Blooms all summer. The flowers are ruby-carmine. 5 feet high. **2 to 3 feet, 50 cts. each, \$5 per doz.**

Rosea. Soft rosy carmine. 8 feet high. **3 to 4 feet, 50 cts. each, \$5 per doz.**



Viburnum plicatum

HEDGE PLANTS

We offer two of the principal shrubs that are extensively used for Hedge Plants

Berberis Thunbergi (Japan Barberry)

Where a dwarf, deciduous hedge is wanted, nothing equals this beautiful Barberry. It requires but little pruning to keep it in shape. The leaves are small, light green, and towards fall assume rich, brilliant colors, the fruit or berries becoming scarlet. It is used extensively throughout the country and is perfectly hardy. **Extra-strong, 1 1/2 to 2 ft., 4 to 6 branches, packed in bundles of 10 or 25 at \$3 for 10, \$6.50 for 25, \$20 per 100.**

California Privet (Ligustrum ovalifolium)

This is, perhaps, the most popular of all the hedge plants. Being absolutely hardy, it increases in beauty with each successive year. To get best results, plants should be set 1 foot apart in double rows in zigzag fashion, so that the plants are diagonally opposite each other. This practically places them 6 inches apart, which is desirable to get quick, dense growth. May be planted from March 15 to May 15, or from October to frost. The Privet which we are offering is grown specially on contract for us and is selected and well-graded plants. This is the best size to plant and is in the most vigorous condition. It will immediately establish itself. **Extra-strong, 3-foot plants, \$2 for 25, \$8 per 100, \$50 per 1,000.**



Ampelopsis Veitchii



Clematis Jackmanii



Clematis paniculata



Euonymus radicans vegeta

HARDY CLIMBING PLANTS

AKEBIA QUINATA (Akebia Vine)

A very graceful, hardy climber, with small, deep green foliage, producing in early spring bunches of violet-brown flowers which have a pleasant cinnamon odor. Strong plants, 50 cts. each, \$5 per doz.

AMPELOPSIS Sometimes called Boston Ivy and Japan Ivy

Veitchii. This is the most deservedly popular of all climbing plants, being entirely hardy in the most exposed places and attaining a height of 30 feet in two or three years; clings to stones, brick, or woodwork with the greatest tenacity. During the summer the leaves are a rich shade of green, but it is in the fall that it shows its exquisite beauty. The leaves then change to the brightest tints of scarlet, crimson, and orange. Extra-strong, field-grown plants, 50 cts. each, \$5 per doz., \$40 per 100.

Quinquefolia (Virginia Creeper; American Ivy). This well-known climber is one of the best and quickest growing varieties for covering trees, trellises, arbors, and the like. The large, deep green foliage assumes brilliant shades of yellow, crimson, and scarlet in the fall. Strong, field-grown plants, 50 cts. each, \$5 per doz., \$40 per 100.

ARISTOLOCHIA SIPHO

Dutchman's Pipe Vine

A vigorous and rapid-growing climber, bearing brownish colored flowers which resemble a pipe in shape. This plant is, however, more admired for its light green leaves, which retain their color from early spring until the fall. Strong plants, \$1 each, \$10 per doz., \$75 per 100.

BIGNONIA RADICANS

Scarlet Trumpet Vine

For covering unsightly places, stumps, rockwork or planting in crevices in ledges, the Bignonias will be found very useful. The flowers are large, attractive, and showy, and borne profusely when the plant attains a fair size. 50 cts. each, \$5 per doz., \$40 per 100.

CELASTRUS SCANDENS

Bittersweet or Waxwork

One of our native climbing plants of rapid growth, succeeding in almost any situation, sun or shade, with attractive light green foliage and yellow flowers during June, followed in the autumn by bright orange fruit which usually remains on the plant throughout the winter. Strong plants, 50 cts. each, \$5 per doz., \$40 per 100.

POLYGONUM AUBERTI (Silver Lace Vine)

One of the most desirable flowering climbers. The plant is of strong, vigorous growth, attaining the height of 25 feet or more, and producing through the summer and fall great foamy sprays of white flowers. Strong plants, 75 cts. each, \$7.50 per doz., \$60 per 100.

CLEMATIS

The soil for Clematis should be well drained and of a light, loamy texture. It should be of good depth, as Clematis dislikes limited root-space. Clematis likes lime.

Paniculata (Japanese Virgin's Bower). This hardy climber is one of the most satisfactory climbing flowering plants. The flowers appear in profusion during August, and continue until late in the fall, are white in color and deliciously fragrant. 50 cts. each, \$5 per doz., \$40 per 100.

Jackmanii. A perfect mass of bloom when in full flower. Color, dark, rich, royal purple. Strong, field-grown plants, \$1 each, \$10 per doz., \$75 per 100.

Henryi. Pure white; large and remarkably handsome. Strong, field-grown plants, \$1 each, \$10 per doz., \$75 per 100.

Ville de Lyon. Bright red, well-formed flowers; a very fine variety. Strong, field-grown plants, \$1 each, \$10 per doz., \$75 per 100.

EUONYMUS

Radicans. Deep green, evergreen foliage. It is extremely hardy and useful for covering low foundation walls or may be clipped the same as boxwood for an edging plant. Strong, field-grown plants, 75 cts. each, \$7.50 per doz., \$50 per 100.

Radicans vegeta (Evergreen Bittersweet). Produces bright orange-red berries which remain on the plant the greater part of the winter. As a hardy evergreen plant for wall-covering, this variety is unequalled. Strong plants, 75 cts. each, \$7.50 per doz., \$50 per 100.

HONEYSUCKLE

Halliana (Hall's Japan Honeysuckle). A strong, vigorous, almost evergreen sort; white flowers changing to yellow; very fragrant; flowering from July to December; holds its leaves nearly all winter. Extra-selected plants, 50 cts. each, \$5 per doz., \$40 per 100.

Scarlet Trumpet. This and its varieties are the handsomest in cultivation. It is a strong, rapid grower and produces scarlet, in-odorous flowers. 50 cts. each, \$5 per doz., \$40 per 100.

WISTERIA

The ideal conditions for Wisterias are a well-drained loam, sunshine and plenty of moisture while in flower, but, given all these, often the plants refuse to flower. Cut out useless wood. Prune the roots and the top-growth will be retarded. Prune the top-growth back to short branches, less severely for the young plants, more severely for the older specimens. Wisterias are quite difficult to transplant. These are all strong, 2-year-old, grafted plants which more definitely assure flowering in from 2 to 3 years.

Sinensis (Chinese Wisteria). A most beautiful climber. When established it grows 15 to 20 feet in a season. Flowers pale blue. Extra-strong plants, \$1 each, \$10 per doz., \$75 per 100.

Sinensis, White. A white-flowering form of the above. Strong plants, \$1 each, \$10 per doz., \$75 per 100.

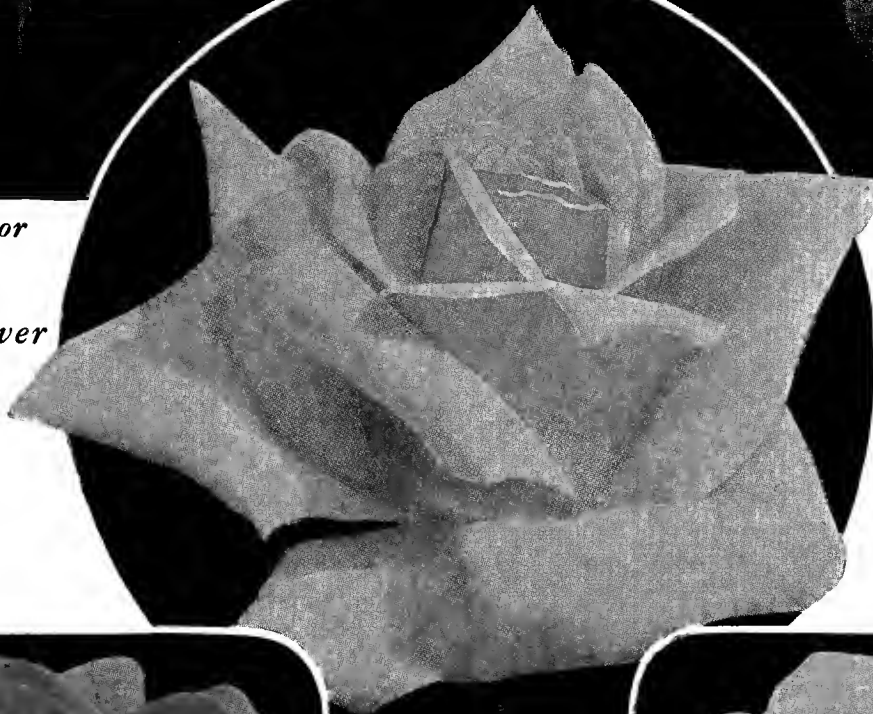
Plant the above to climb over fences, trellises, arbors and stone walls; also on slopes and embankments. Include Climbing Roses, especially the two beautiful everblooming kinds shown on page 144.



\$1 each \$10 for 12
*President
 Herbert Hoover*



\$1 each \$10 for 12
McGredy's Scarlet



75 cts. each \$7.50 for 12

*Rev. F. Page-
 Roberts*

**SPECIAL
 OFFER**
Collection A

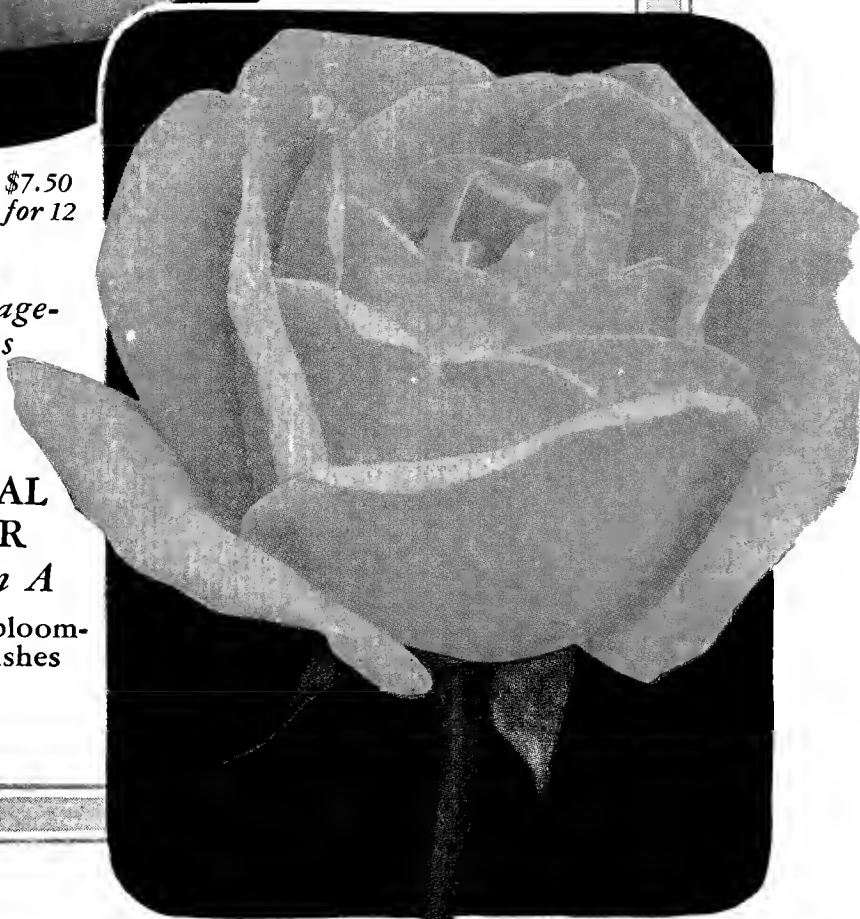
Five fine everbloom-
 ing Rose bushes

\$3.50



75 cts. each \$7.50 for 12

Margaret McGredy



75 cts. each \$7.50 for 12

Mrs. E. P. Thom



Mrs. Henry Bowles
75 cts. each, \$7.50 for 12

FIVE new attractive Roses which bloom all summer. We have gathered on this page the handsome Mrs. Henry Bowles; the sensational Talisman; Mevrouw G. A. van Rossem, of unbelievable brilliance; the superb, dark red Etoile de Hollande; and the Rose that won many medals last year—Olympiad.



Talisman
75 cts. each, \$7.50 for 12



Olympiad

\$1 each
\$10 for 12

SPECIAL OFFER COLLECTION B

*Five Fine Everblooming
Rose Bushes*

One each of the 5
beautiful varieties **\$3.50**
pictured for



*Mevrouw G. A.
van Rossem*
\$1 each, \$10 for 12



Etoile de Hollande
75c. each, \$7.50 for 12



Columbia

*Souv. de
Claudius Pernet*

Hadley

Kaiserin Auguste Viktoria

Radiance

Five Splendid Everblooming ROSES

We are again making a special offer of the above five Roses. The varieties offered are distinct in their colors and are noted for their free-flowering qualities. Owing to our having had a large quantity especially grown, we are able to offer them at a slightly reduced price in collections only. If our patrons desire to purchase any of these varieties separately, we suggest their referring to the following two text pages, where they will be found listed and more fully described

SPECIAL COLLECTION OFFER A. Five Fine Everblooming Rose Bushes for \$2.50

Souv. de Claudius Pernet Radiance Kaiserin Auguste Viktoria Columbia Hadley

AMERICAN-GROWN 2-YEAR-OLD DORMANT PLANTS. The Rose bushes we are offering are 2-year-old, budded plants, which give better results than those grown on their own roots. They make stronger plants and produce more and better flowers the first year.

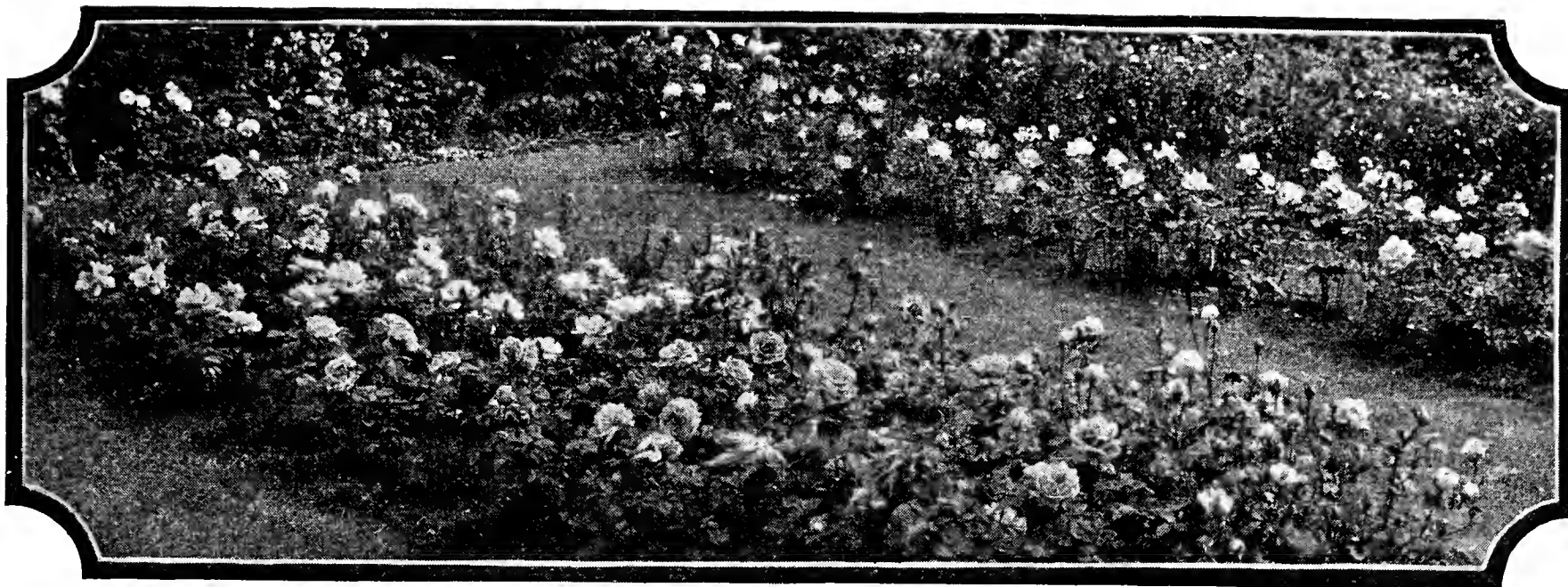


NEW DAWN \$1.50 each
\$15 for 12
Plant Patent No. 1

Everblooming Dr. W. Van Fleet



© **CLIMBING ROSE, BLAZE** New Hardy Everblooming Paul's Scarlet Climber
Plant Patent No. 10 \$2 each, \$20 for 12



HYBRID TEA ROSES

Our Roses are all American-grown, two-year-old stock. They are budded or grafted, and while some planters prefer stock grown on their own roots on account of the liability of budded plants to throw up suckers, this will rarely occur if deep plantings are made, and if a wild shoot should appear, it is readily distinguished by the most casual observer, and should be removed close to the root. Budded plants are more vigorous, produce finer blooms, come to bearing sooner, and are equally as permanent and hardy as those on their own roots, and many of the choicest varieties do not succeed unless budded or grafted.

Culture and Hints on Growing. The best soil in which to grow Roses is good topsoil to which rotted cow manure has been added. Dig out the bed to a depth of 2 feet or more, and, if drainage is imperfect, it must be provided for. Fill in with a mixture of soil and manure as above. It is best to make beds, if possible, in advance of

planting, so as to allow time for settling. Beds may be made any size, but it is best to have them about 3½ by 5 feet, which enables you to pick the blooms without stepping on the beds. The ideal time to plant is just after severe frost has passed. Hybrid Teas should be set 1½ feet apart; Hybrid Perpetuals 2 feet apart, and both 8 inches from the edge of the beds. They should be planted with the roots well spread out and placed about 9 inches below the surface of the ground, the soil made firm about them, and liberally watered. Throughout the summer the surface soil should be cultivated weekly. If good cultivation, like the above, is given, watering will rarely be necessary.

Winter Protection. In this latitude the most satisfactory form of protection is to draw up a mound of soil from 8 to 10 inches high around the base of the plant, then cover the entire bed after the ground begins to freeze with any loose material, such as strawy manure, evergreen boughs, or corn-stalks.

BETTY SUTOR. Exquisite both in bud and fully developed flower. The inside of the petals is a delicate rosy pink, the outside, bright rosy pink. **\$1.50 each, \$15 per doz.**

BETTY UPRICHARD. This is one of the most popular garden Roses at this time. The flowers are large, semi-double, brilliant in two tones of light salmon-pink, heavily shaded with copper on the backs of the petals. The bush is very vigorous, with good foliage, and is exceptionally free flowering. **75 cts. each, \$7.50 per doz., \$60 per 100.**

CALEDONIA. Large, very long-pointed, conical buds, slightly lemon-tinted when first expanding, changing to pure white as the flowers develop. **\$1 each, \$10 per doz., \$80 per 100.**

COLUMBIA. This beautiful Rose has not only become one of the most popular greenhouse blooming varieties, but has proved itself one of the best bedding and garden sorts. It is of strong, vigorous habit and exceptionally free blooming. In color it is a most pleasing shade of rose-pink. **50 cts. each, \$5 per doz., \$40 per 100.**

DAME EDITH HELEN. A sensational new Rose which has won almost every award at home and abroad. The flowers are produced singly on strong canes throughout the season. They are immensely long, composed of very substantial broad petals which curl back prettily, forming a wonderful, imbricated, full, double flower, absolutely perfect in every state of development. The color is a brilliant, yet soft Rose du Barri pink, and is delightfully and strongly sweet-scented. **75 cts. each, \$7.50 per doz., \$60 per 100.**

DUCHESS OF WELLINGTON. As the flower develops it changes in color from a saffron-yellow to a deep coppery saffron-yellow. The flowers are fairly full, with petals of great substance. A very free-flowering and fragrant variety. **75 cts. each, \$7.50 per doz., \$60 per 100.**

EDEL. Splendid globular buds, opening to huge, extremely double, snow-white flowers, richly perfumed and exquisitely formed. The plants are strong, tall, free in blooming habit, satisfactory for bedding. A relatively new variety superior to the old white Hybrid Teas. **75 cts. each, \$7.50 per doz., \$60 per 100.**

EDITH NELLIE PERKINS. Notable for beautiful form and firm substance. Blends scarlet-orange, retaining the same color on the outside of the petals as the blooms unfold, disclosing an inner surface of shimmering flesh-pink, tinged with gold. **\$1 each, \$10 per doz., \$80 per 100.**

E. G. HILL. The long buds of perfect form, as well as the high-centered, full, double flowers are of a dazzling scarlet, shading to a deeper pure red as they develop. Strong, vigorous grower and free bloomer. **\$1 each, \$10 per doz., \$80 per 100.**

ETOILE DE HOLLANDE. Acclaimed by all Rose-growers as the best red garden Rose in America. The flowers are sufficiently double to hold the bud shape well, and a rich, lovely shade of glowing scarlet-crimson. They are large, fragrant, and fine for all purposes. **75 cts. each, \$7.50 per doz., \$60 per 100.**

GOLDEN DAWN. From the far-off continent of Australia comes this lovely flower of pale gold-yellow, enchanting in its fullness and fragrance. The bushes are remarkable for disease-resistant foliage, continuous bloom, and compact habit. Finest yellow Rose. **\$1 each, \$10 per doz., \$80 per 100.**

GRUSS AN TEPLITZ. Of a rich scarlet, shading to a velvety crimson. A very free grower and in bloom all the time; succeeds well under the most ordinary conditions. **75 cts. each, \$7.50 per doz., \$60 per 100.**

HADLEY. Considered by many as being one of the best garden varieties of its color—a rich crimson, varying to deep velvety crimson. The flowers are well formed and very fragrant. **50 cts. each, \$5 per doz., \$40 per 100.**

JAMES GIBSON. Glorious, glowing crimson-scarlet with velvety sheen, imparting a lustrous radiance to the large, full, beautifully formed flowers. **\$1 each, \$10 per doz., \$80 per 100.**

JOANNA HILL. The buds are large, long-pointed, and open to large, full, semi-double, attractive, long-lasting, moderately fragrant flowers of a clear yellow with orange-yellow heart. **\$1 each, \$10 per doz., \$80 per 100.**

JOHN RUSSELL. Exquisitely shaped, dark velvety crimson flowers on excellent plants of almost Hybrid Perpetual vigor. Notable for its splendid color and beautiful shape. **75 cts. each, \$7.50 per doz., \$60 per 100.**

KAISERIN AUGUSTE VIKTORIA. A soft pearly white, faintly tinted lemon in the center. Very fragrant, beautifully formed flowers on long, graceful stems. **50 cts. each, \$5 per doz., \$40 per 100.**

LADY MARGARET STEWART. A Rose of unique and distinct color—deep sunflower-yellow, heavily veined and deeply suffused with carmine. As the flowers develop, these colors intermingle, forming a most beautiful cadmium-orange effect. Delightfully sweet-scented. **75 cts. each, \$7.50 per doz., \$60 per 100.**

Hybrid Tea Roses, continued

LOS ANGELES. The following is the originator's description, all of which we fully endorse: "Los Angeles is, by all odds, one of the finest Roses ever introduced. The growth is very vigorous, and produces a continuous succession of long-stemmed flowers of luminous flame-pink, toned with coral and shaded with translucent gold at the base of the petals. In richness of fragrance it equals in intensity the finest Maréchal Niel. The buds are long and pointed, and expand into a large flower; the color is maintained from the bud until the last petal drops." 50 cts. each, \$5 per doz., \$40 per 100.

MARGARET McGREDY. Fine, cup-shaped, double flowers of brilliant brick-red with a fiery sheen, very difficult to describe. The plants are large, bushy, covered with healthy bright green foliage, and are continuously in bloom. 75 cts. each, \$7.50 per doz., \$60 per 100.

McGREDY'S SCARLET. A new red Rose of marked superiority on account of its strong, vigorous growth, free and continuous flowering, and its brilliant color. The flowers are of good size, full double, of a brilliant scarlet-orange, yellow at base of petals, the upper portions of petals being lightly touched with crimson, varying somewhat in color under changing weather conditions but always beautiful. A splendid Rose for the garden. \$1 each, \$10 per doz., \$80 per 100.

MEVROUW G. A. VAN ROSSEM. This gorgeously colored Rose is a vigorous grower, with large, dark bronzy green, disease-resistant foliage. It produces an abundance of large, double, very fragrant flowers of golden yellow, heavily flamed and shaded orange and apricot, with the reverse of the petals often dark bronze and nearly brown when first open. The buds open well in all weathers and the stems are long and strong. \$1 each, \$10 per doz., \$80 per 100.

MISS ROWENA THOM. It is almost impossible to give a true color description of this Rose. It seems as if the tints of a desert sunset have been caught in all their splendor and held by this beautiful Rose. The deep center glows with vivid Oriental red, shading to rose as the bud expands and gradually passing to delicate mauve in the full-blown flower. The habit of growth is even stronger than that of Radiance which has for years been held as the peer of garden Roses. The flowers are large and borne on stems 30 inches long, which are practically thornless. It is virtually disease-resistant and produces many blooms which last well when cut. 75 cts. each, \$7.50 per doz., \$60 per 100.

MME. BUTTERFLY. A sport of Ophelia, it shows even better growth than this sterling variety, with more and larger flowers of a brilliant pink, suffused apricot and gold. The flowers are of splendid form, good texture, and fragrance. 75 cts. each, \$7.50 per doz., \$60 per 100.



Radiance Roses

MME. CAROLINE TESTOUT. Large, globular flowers of bright satiny rose, with deeper center. Very free and fragrant, and one of the most popular and valuable bedding varieties. 50 cts. each, \$5 per doz., \$40 per 100.

MME. EDOUARD HERRIOT. The buds are coral-red in color, shaded with yellow at the base; the medium-sized open flowers, medium double, are coral-red, shaded yellow and bright rosy scarlet, passing to shrimp-red. 50 cts. each, \$5 per doz., \$40 per 100.

MRS. AARON WARD. Splendidly formed, full, double flowers, equally attractive when full blown or in the bud state, of distinct Indian yellow, shading lighter toward the edges. Under certain weather conditions the entire flower will sometimes come a yellow tinted white, but it is beautiful under all color variations. 75 cts. each, \$7.50 per doz., \$60 per 100.

MRS. ERSKINE PEMBROKE THOM. Slender yellow buds and large, well-shaped flowers of bright canary-yellow, somewhat deeper in the center. A free bloomer and a strong grower. 75 cts. each, \$7.50 per doz., \$60 per 100.

MRS. HENRY BOWLES. Warm rosy pink blooms of unusual substance shaded with salmon-orange. It is a vigorous grower, upright, bushy, with glossy, dark green, disease-resistant foliage and produces a profusion of large, double, fragrant, lasting flowers on long, strong stems. 75 cts. each, \$7.50 per doz., \$60 per 100.

OPHELIA. Flowers of perfect form, large size, and a most pleasing delicate tint of salmon-flesh, shaded rose, are borne erect on long, stiff stems. A variety that is exhibited in all Rose collections and flower shows on account of its sterling merit. 50 cts. each, \$5 per doz., \$40 per 100.

OLYMPIAD. One of the last creations of the French hybridist, Pernet-Ducher. In Europe it is known by the name he gave it—Mme. Raymond Gaujard,—but the American introducers thought so much of the Rose that they were unwilling to handicap its popularity by a name so difficult for American memories and tongues. Hence, they changed the name to Olympiad (with the approval of the originator) to commemorate the Olympic Games held at Los Angeles in 1932. Olympiad has both good form and brilliance of color, a rare combination of good qualities in modern Roses, and it promises to be free flowering and vigorous in the garden. \$1 each, \$10 per doz., \$80 per 100.

POLLY. A splendid Rose of perfect shape, the center golden yellow passing to a tender pink flush toward the edges. \$1 each, \$10 per doz., \$80 per 100.

PRESIDENT HERBERT HOOVER. Large, long-pointed buds and semi-double, very lasting, spicily fragrant flowers of good size are borne in abundance on long, strong stems. In color they are a very lovely combination of cerise-pink, flame, scarlet, and yellow, with deeper cerise tints on two of the outer petals. A vigorous grower with clean, handsome foliage. \$1 each, \$10 per doz., \$80 per 100.

RADIANCE. A brilliant carmine-pink, with salmon-pink and yellow shadings at the base of the petals. A Rose that will withstand the most unfavorable hot summer weather. 50 cts. each, \$5 per doz., \$40 per 100.

RED RADIANCE. A counterpart of Radiance, except in color, which is a clear cerise-red. A most valuable addition to our list of Roses. 50 cts. each, \$5 per doz., \$40 per 100.

REV. F. PAGE-ROBERTS. A Rose that is rapidly attaining great popularity. The copper-red buds are of great length, and open to golden yellow blooms stained with red. The flowers are large, fully double, and delightfully fragrant. The plant is of strong habit with healthy foliage. 75 cts. each, \$7.50 per doz., \$60 per 100.

SCHWABENLAND. A Rose of great merit. There are many pink Roses but none just like this. In color it is a luminous, rich rose-pink, retaining its brightness until the petals drop. \$1 each, \$10 per doz., \$80 per 100.

SOUVENIR DE CLAUDIUS PERNET. Introduced in 1920. A hardy everblooming real yellow Rose free from disease and a very strong grower, producing an abundance of good flowers on long stems. 50 cts. each, \$5 per doz., \$40 per 100.

TALISMAN. Brilliant gold, cerise, scarlet, and pure yellow in indescribable richness and combinations make Talisman the most spectacular Rose ever produced. It is a fine grower and blooms like the most seasoned garden veteran. Everybody likes it. 75 cts. each, \$7.50 per doz., \$60 per 100.

VATERLAND. The most distinct dark-colored variety yet introduced—a rich, deep, velvety scarlet-maroon. The splendidly formed, high-centered flower has remarkable keeping qualities. \$1 each, \$10 per doz., \$80 per 100.



Climbing Rose, New Dawn

CLIMBING AND RAMBLER ROSES

We offer on this page a selection of the best modern hardy Climbing and Rambler Roses. Climbing Roses require no pruning in the spring, except the cutting out of very old or dead wood, and the shortening of the laterals and long canes to make the growth conform to the space to be covered; but a severe pruning in July, directly after they have finished flowering, is beneficial. Cutting away at that time all old flowering wood will encourage a vigorous growth, which will give an abundance of flowers the following season.

AMERICAN PILLAR. A single-flowering variety of great beauty. The flowers are of large size—3 to 4 inches across—of a lovely shade of pink, with a clear white eye and cluster of yellow stamens, and are borne in immense bunches.

BLAZE

Plant Patent No. 10. The Everblooming Paul's Scarlet

Spectacular in the extreme, this astonishing new Climbing Rose combines the profuse clustered bloom of the blazing red Paul's Scarlet Climber with the well-known profuse and continuous blooming habit of the popular Gruss an Teplitz. From early summer until late autumn, clusters of buds succeed each other in unending sequence, so that the plant is a glorious picture of vigor and beauty all season. \$2 each, \$20 per doz., \$160 per 100.

CHAPLIN'S PINK CLIMBER. A Rose of strong, vigorous growth, perfectly hardy, with large, glossy, dark green foliage, producing its large flowers, similar in size and form to Paul's Scarlet Climber, very profusely in strong trusses of from eight to twelve flowers each, but in color it is a rich, lively pink.

CLIMBING AMERICAN BEAUTY. A strong, healthy, vigorous grower, frequently making shoots from 10 to 12 feet long, with good-sized flowers for a Climbing Rose that blooms so freely. A pleasing rose-pink of splendid form.

DOROTHY PERKINS. Soft shell-pink, flowering profusely in large clusters; very fragrant and lasting.

DR. W. VAN FLEET. The long, pointed buds are of a rich flesh-pink on stems 12 to 18 inches long. One of the very best of the Climbing Roses.

JACOTTE. Color shrimp-pink, shaded golden yellow at base; flowers fully 2 ½ inches in diameter, distinct from all others, and a color which will make it a favorite.

PAUL'S SCARLET CLIMBER. No Rose can compare with it for brilliancy of color—a vivid scarlet which does not bleach or fade throughout the life of the flower.

Mme. Gregoire Staechelin

This Rose has inherited the best qualities of both its popular parents, Frau Karl Druschki and Château de Clos Vougeot. The long-pointed buds are crimson at first as the sepals divide, then the firm outer petals show splashes of carmine as the flower opens, with an iridescent pearl-pink inside; richly perfumed. It grows 12 feet or more and has large, disease-resistant foliage. The main stem of the plant shoots upright, and the long bloom-spurs stand out 18 inches at right angles, with exquisite, full, fragrant blooms. These blooms come early in June and last over a long period. \$1 each, \$10 per doz., \$80 per 100.

NEW DAWN The Everblooming

Dr. W. Van Fleet

Plant Patent No. 1

A sport from what is universally acknowledged as the best and most popular American Climbing Rose, identical in every way with its parent in size and formation of its flowers, color, etc., but which blooms continuously throughout the summer and fall months. Really the first worth-while Everblooming Climber introduced and a variety that every Rose-lover will be anxious to possess. \$1.50 each, \$15 per doz., \$120 per 100.

PRIMROSE. In this Rose we have what has long been sought after—a real hardy yellow Rambler. It is a strong, vigorous climber and hardy under the same conditions in which Dr. W. Van Fleet and similar varieties will thrive. Its light primrose-yellow color lasts until the petals drop, and the flowers, 2 ½ inches in diameter, are borne in trusses of 2 to 5 on long stems, and stay in good condition a long time. Blooms freely in midseason and has healthy, dark green foliage.

SILVER MOON. Pure white in color, with petals of great substance. The large bunch of yellow stamens in the center adds to its attractiveness.

Price, any of the above varieties, except where noted, extra-strong, field-grown plants, 75 cts. each, \$7.50 per doz., \$60 per 100

HARDY HYBRID PERPETUALS

Before the wonderful development of the Hybrid Tea Roses, the Hardy Hybrid Perpetual Rose was the most popular type for garden planting, and even now most of the varieties offered are grown by Rose-lovers in conjunction with the other sorts. The collection offered below will be found excellent.

In pruning Hybrid Perpetuals it is advisable to cut away all weak growth, and if quality of bloom is desired, cut back the strong canes to within 8 or 9 inches of the ground, but if quantity of bloom for garden effect is desired, leave these canes from 2 to 3 feet high, according to their strength.

FRAU KARL DRUSCHKI. Pure white in color, perfect in form, strong grower and remarkably free flowering.

GENERAL JACQUEMINOT. One of the old favorites and probably the best known Rose in cultivation. Brilliant scarlet-crimson.

GEORG ARENDS. Long, delicately shaped buds and deep-petaled, pointed blooms of soft pink in its most exquisite shade, delicately scented.

MAGNA CHARTA. Bright pink, very large, very double flowers, suffused with carmine; heavily perfumed.

MME. ALBERT BARBIER. Large, well-shaped, creamy pink flowers, beautifully stained with yellow at the center. The dwarf plants are almost continuously in bloom.

PAUL NEYRON. Perhaps the largest of all; dark rose in color.

ULRICH BRUNNER. A good strong grower with large, full flowers of a bright cherry-red.

Any of the above, field-grown plants, 75 cts. each,
\$7.50 per doz., \$60 per 100



Frau Karl Druschki Roses

MISCELLANEOUS ROSES

F. J. Grootendorst, New Hybrid Rugosa Rose

This is a new type of Rose—a cross between Rugosa and the Crimson Baby Rambler. It is not a Rose that you would want to plant in with your bed of Hybrid Teas or Hybrid Perpetuals, but is valuable as an isolated specimen, in masses in a bed, in an exposed position, among shrubs in the shrubbery border, or for an everblooming hedge. It is absolutely hardy and continues in bloom until late in the fall. **75 cts. each, \$7.50 per doz., \$60 per 100.**

PINK GROOTENDORST. Same as above, except color, which is pink. **75 cts. each, \$7.50 per doz., \$60 per 100.**

Hugonis Rose

This species, recently introduced from China, is unlike any other Rose. It is of a shrub-like habit of growth and naturally forms symmetrical bushes about 6 feet high, and the same in diameter. Valuable for planting in connection with other shrubs or as a single specimen in the garden. Its single, delicate yellow flowers are produced on long, arching sprays early in May, every branch of the previous season's growth becoming lined on both sides to the very tips with the attractive flowers. **75 cts. each, \$7.50 per doz., \$60 per 100.**

Baby Rambler or Polyantha Roses

This type of Roses forms shapely, compact, bushy specimens, most of the varieties growing about 1½ feet high. They begin blooming early in June and bear their immense trusses of small flowers until cut down by frost. They are fine for garden decoration, and their miniature flowers are excellent for cutting as well. This type of Roses requires no spring pruning; the flower-stems of the previous season need only be removed.

Cecile Brunner (Sweetheart Rose). This Polyantha has dainty flowers of soft rosy pink on a rich creamy white ground.

Orleans. A very striking variety, with large, brilliant geranium-red flowers, becoming suffused with rose as they mature.

Magnifique. Dorothy-Perkins-pink. Plant produces many flowers on long trusses.

Gloria Mundi. The most striking new orange-scarlet Rose and a wonderful color improvement on Golden Salmon and all other Roses of this type. It is the most brilliant orange-scarlet imaginable and does not fade but retains its brilliancy to the finish. The flowers are well formed, full, double, and borne in many-flowered, graceful clusters. A free and continuous bloomer.

Price, any of the above varieties, 75 cts. each, \$7.50 per doz., \$60 per 100

Moss Roses

Moss Roses derive their name and beauty from the delicate mossy covering which surrounds the buds and gives the opening flowers a rather unique appearance. These Roses should be pruned sparingly; cut out the old wood and cut back the growth of the previous year.

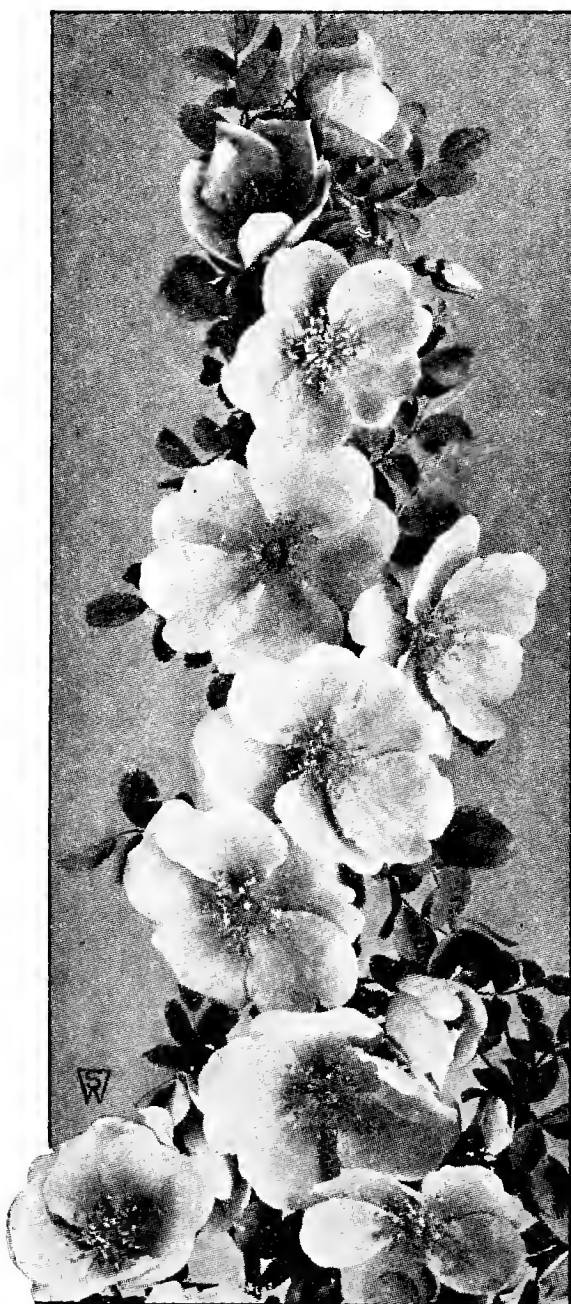
Blanche Moreau. Large; pure white.

Henri Martin. Fine crimson; vigorous.

Crested Moss. Rose; beautifully crested.

Salet. Large, double; light rose-pink.

Price, any of the above varieties, 75 cts. each, \$7.50 per doz., \$60 per 100



Hugonis Roses

Broad-Leaved Evergreens

Azaleas

Charming shrubs which bloom profusely over a period of several months from early spring to midsummer. Most of them are evergreen or exhibit evergreen characteristics. The flowers are funnel-formed, usually in clusters, brilliant in color, and some are fragrant.

AMCENA. An evergreen shrub. Shapely, bushy, reaching 3 feet after several years. Covered in spring with a profusion of reddish purple flowers. 12 to 15 in., \$2 each, \$20 per doz.; 15 to 18 in., \$2.50 each, \$25 per doz.; 18 to 24 in., \$3.75 each, \$37.50 per doz.

HINODEGIRI. Similar to the familiar Amcena in habit, but instead of the uncertain purple color of that variety, Hinodegiri is brilliant crimson-scarlet, a clear, handsome shade that everybody likes. One of the showiest plants for gorgeous landscape color effect. 12 to 15 in., \$2.50 each, \$25 per doz.

KAEMPFERI HYBRIDS. These constitute a new race of hardy Azaleas, descended from the blazing brick-red *A. Kaempferi*. They produce a profusion of lovely flowers in soft, yet brilliant shades of salmon, lemon, cream, terra-cotta, old-rose, buff, orange, and coppery pink. 15 to 18 in., \$3 each, \$30 per doz.; 18 to 24 in., \$4 each, \$40 per doz.; 24 to 30 in., \$6 each, \$60 per doz.

KURUME. This race of Azaleas is dwarf and bushy, resembling in many respects the type of *Azalea amœna*, and provides the same super-abundance of brilliant-colored flowers in various shades.

Daybreak. Pure light pink blooms in dense clusters. 15 to 18 in., \$4 each, \$40 per doz.

Hexe. Large; semi-double; crimson. Very showy. 12 to 15 in., \$3 each, \$30 per doz.

Snow. A most profuse bloomer with large, pure white flowers in clusters. 12 to 15 in., \$3 each, \$30 per doz.

Sunstar. Small, rose-pink blooms, striped with carmine, freely produced. 15 to 18 in., \$4 each, \$40 per doz.

MOLLIS. Not evergreen. A dwarf variety producing enormous flowers in clusters, ranging in color from yellow through salmon-pink and orange-scarlet; fragrant. Mixed varieties, 12 to 15 in., \$2 each, \$20 per doz.



Azalea amœna

Rhododendrons

Rhododendrons are handsome shrubs, with long, leathery, evergreen foliage. They produce their flowers in large, showy clusters, and are among the handsomest objects for garden decoration. Plants offered below carry 10 branches or more and are all heavily budded. Absolutely hardy in this section. They like a sour soil, enjoying a liberal mixture of peat and decayed oak-leaves. A liberal sprinkling of Aluminum Sulphate several times a year will maintain the acid condition they enjoy. Beds should be about 2½ feet deep and plants thoroughly soaked before planting. A mulch of leaves over the winter will benefit them and act as a fine fertilizer, the best for Rhododendrons.

HARDY HYBRID RHODODENDRONS

Grafted Named Varieties

Well-budded Plants — Beautifully Shaped

	Price, each		
	15-18 inch	18-24 inch	24-30 inch
ROSEUM ELEGANS. Clear rose-pink. An excellent Rhododendron in every respect, with lovely foliage.....	\$2 50	\$3 50	\$4 50
PRESIDENT LINCOLN. The lilac-pink flowers, with brown eyes, are borne in well-shaped trusses on stout stems.....	3 00	4 00	6 00
CATAWBIENSE ALBUM. This is the well-known, fast-growing white Rhododendron.....		5 00	7 00
AMPHION. A beautiful, clear pink with white eye.....		5 00	7 00
DR. DRESSELHUYS. Aniline-red; large petals and trusses. Unusual. One of the best new creations.....		5 00	7 00
MRS. C. S. SARGENT. Fine dark pink or rosy red. Exceptionally fine foliage. Slow growing. Makes unusually fine specimen plant.....		5 00	7 00

Select Hybrid Rhododendron Seedlings

Mixed Brilliant Colors

These are strong, well-rooted seedlings from seed collected from the finest English named varieties, including a wide range of desirable colors, mostly in the darker shades.

	Each	10	100
3 to 6-inch plants, 2 or more branches.....	\$0 50	\$4 50	\$40 00
5 to 8-inch plants, 2 or more branches.....	60	5 50	50 00
8 to 12-inch plants, very bushy.....	75	6 50	60 00
12 to 15-inch plants, very bushy.....	1 00	9 00	80 00
15 to 18-inch plants, very bushy.....	2 00	18 00	160 00
18 to 24-inch plants, very bushy.....	3 00	27 00	250 00
24 to 30-inch plants, very bushy.....	4 00	36 00	320 00



President Lincoln Rhododendron

GRAPE-VINES

Selected vines, except where noted, 50 cts. each, \$5 per doz.

White Grapes

Diamond. Bunch large, compact, shouldered; berries large, round; skin thin; flesh tender, juicy, with but little pulp. Ripens a little before Concord.

Niagara. Bunch very large, often shouldered; compact; berries large, round; skin thin, does not crack, and carries well. Ripens with Concord.

NEW GRAPES

Fredonia. Black. Extra-early ripening and by far the best quality. Vine a strong, healthy grower. Berries and cluster large. Productive.

Portland. White. Earliest of all. Large bunch and berry. Resembles Niagara but is superior in quality. Fruit sweet, juicy, and of fine flavor. Vigorous and healthy grower.

Sheridan. Black. Large in bunch and berry; compact. Skin not so tender as Concord and therefore it is a better shipper. Ripens with Concord and it may prove a rival of that old, standard sort for both garden and vineyard planting.

2-yr., first-class Vines, \$1 each, \$10 per doz.

Black Grapes

Concord. Early. D deservedly the most popular Grape in America. Bunch large, shouldered, compact; berries large, covered with a rich bloom; skin tender, but sufficiently firm to carry well to distant markets; flesh juicy, sweet, pulpy, tender. Vine a strong grower, very hardy, healthy and productive. For general cultivation the most reliable and profitable variety.

Moore's Early. Ripens fully two weeks before Concord. Grapes black, large, and of best quality. Bunches hold together firmly. One of the best shippers. A profitable variety for either home use or market. It produces abundantly in the nursery-row on two-year vines. We consider it as good in every particular as Concord, and for those seeking an *extra-early* black Grape it cannot be excelled.

Red Grapes

Brighton. Bunch medium to large, long, compact, shouldered; berries medium; skin thin; flesh tender, sweet, with scarcely any pulp; quality best. Ripens with Delaware.

Catawba. Dark red when fully ripe. Bunch large, moderately compact, shouldered; berries medium to large; skin thick, tough; flesh somewhat pulpy, with rich, vinous flavor, of best quality for both table and wine. Ripens too late for high latitudes.

Delaware. Bunch small, compact, sometimes shouldered; berries small; skin thin, but firm; flesh juicy, very sweet and refreshing, of best quality for both table and wine; ripens with Concord or a little before. It should be in every garden and vineyard.

CHOICE SMALL FRUITS

We have endeavored to list only the choicest sorts and, while our list is a short one, only the finest sorts are offered. This is preferable to a long list which would necessarily contain varieties of less merit.

SHIPPING SEASON APRIL AND MAY

BLACKBERRIES

Blackberries require the same treatment as raspberries and should be planted the same distance apart. We have avoided listing varieties of the prostrate habit, the tips of which constantly root in the ground.

Extra-strong canes, 20 cts. each, \$2 per doz., \$15 per 100

Blowers. Large; glossy; fine quality. Ripens early and continues long in season.

Eldorado. Large, coal-black, sweet, melting, without hard core. Vigorous, hardy and very productive. Fine market variety.

RASPBERRIES

Raspberries succeed well on any good land suitable for corn or wheat, but amply repay high cultivation. Ground bone is the best fertilizer. Red and yellow varieties should be planted in rows 6 feet apart and 3 feet apart in the rows; black- and purple-cap varieties 7 feet apart and 3 feet in the rows. Cut out all old wood as soon as the canes have done bearing—to give more vigor to the young canes.

Extra-strong canes, except where noted, 20 cts. each, \$2 per doz., \$15 per 100

Latham. The new mosaic-free, hardy, red Raspberry. The berries are large and round and the color is a richly brilliant red.

Columbian. (Dark purple.) Berries large and well formed; flesh firm, tender, and sweet, of rich quality.

Cuthbert. (Red.) The best red Raspberry. Heavy yielder of large, solid fruit. Plant is a very vigorous grower. Fine for market and table use.

White Queen. This wonderful new Raspberry bears an abundance of almost white fruits from August until well into November. The extra-large, firm berries, which are free from seeds and acid, are of exquisite flavor and aroma. Plants attain a height of 6 feet and bear good crops the first year. 30 cts. each, \$3 per doz., \$20 per 100.

St. Regis. A remarkable Raspberry and, all things considered, the most valuable variety that has appeared in the last quarter of a century. The berries are bright red and of excellent quality. It ripens very early, in advance of all the other red varieties, and in addition to being exceedingly hardy and drought-resistant, is exceedingly prolific. Its rich green foliage

RASPBERRIES, continued

does not scald or rust, hence it succeeds on hot, sandy soil where other varieties fail. Besides yielding an enormous crop in June, it gives also a moderate one in the autumn, and, unlike other red Raspberries, it produces a crop of berries the first year, or the season it is planted.

CURRENTS

Plant in rows 6 feet apart, and 4 feet apart in the rows, or, if to be cultivated both ways, 5 feet apart each way. The soil should be well cultivated to a depth of 12 inches. Plants should be well set and roots firmed in the soil. After planting cut back the tops one-half of the previous year's growth. For the first 4 or 5 years some of the wood made in the spring should be cut back in the fall, in order to make a more symmetrical plant and a greater number of fruit-buds. Rotted stable manure around base of plant forked in each fall will prove very beneficial.

Selected 3-year-old stock, 35 cts. each, \$3.50 per doz., \$25 per 100

Wilder (President Wilder). Bush upright, vigorous; clusters above medium length; berries averaging large; bright red; excellent, with a mild subacid flavor. Ripens early and remains bright and firm until very late. Because of its exceedingly vigorous growth, great productiveness, high quality, and remaining good so long after ripening, we recommend this as one of the best Red Currants, both for table and market.

Fay's Prolific. (Red.) A very vigorous-growing bush, enormously productive, with fruit of very large size. Inclined to do better on light soils than most varieties. Popular with most growers but not so upright a grower as Wilder.

GOOSEBERRIES

Plant in the same manner as described for currants, and give the same annual manuring. The American varieties will need close pruning every year.

Selected 3-year-old stock, 50 cts. each, \$5 per doz., \$40 per 100

Downing. Pale green, large, prolific and good. Best for home and market use.

Houghton. (Red.) This variety rarely fails to produce a crop every year, and usually the bushes are loaded to the limit. The berries are of medium size and the plants are extremely hardy and healthy.

FRUIT TREES. We shall be pleased to send a selected list of Apples, Pears, Peaches, Plums, etc., on request.



Planet Jr. Wheel Hoes and Seeders



Enable You to Cultivate a Larger Garden with Less Effort

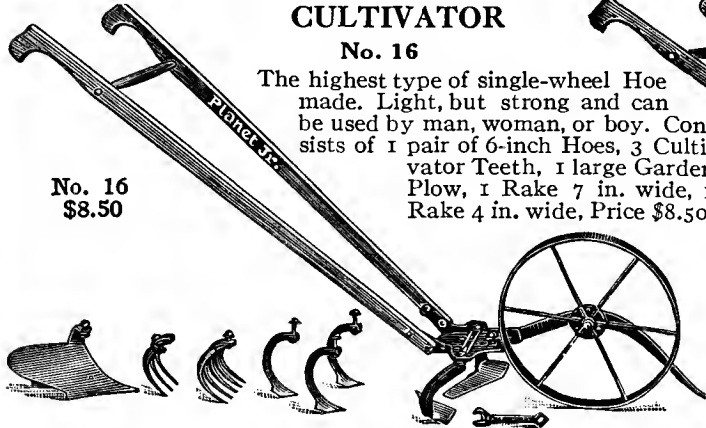
Wheel Garden Tools do the work of three to six men, make your garden yield more abundantly, and save several times their cost in a single season. Every tool is fully guaranteed.

SINGLE WHEEL CULTIVATOR

No. 16

The highest type of single-wheel Hoe made. Light, but strong and can be used by man, woman, or boy. Consists of 1 pair of 6-inch Hoes, 3 Cultivator Teeth, 1 large Garden Plow, 1 Rake 7 in. wide, 1 Rake 4 in. wide, Price \$8.50.

No. 16
\$8.50

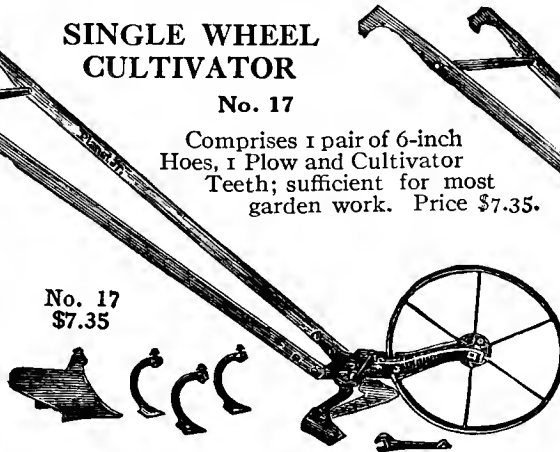


SINGLE WHEEL CULTIVATOR

No. 17

Comprises 1 pair of 6-inch Hoes, 1 Plow and Cultivator Teeth; sufficient for most garden work. Price \$7.35.

No. 17
\$7.35



SINGLE WHEEL CULTIVATOR

No. 17 1/2

Consists of 1 pair of 6-inch Hoes and 3 Cultivator Teeth. Price \$6.40.

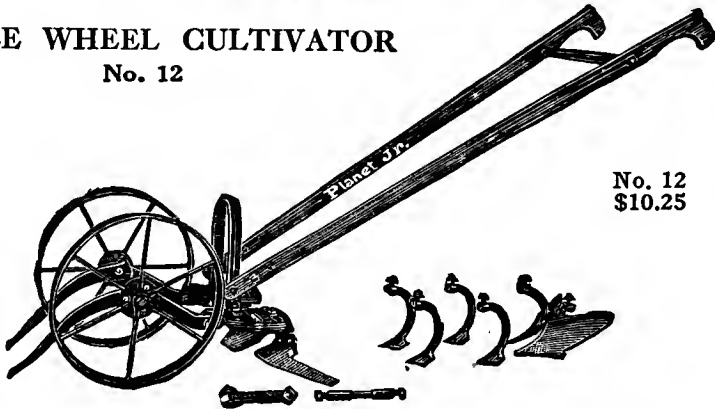
No. 17 1/2, \$6.40



DOUBLE WHEEL CULTIVATOR

No. 12

No. 12
\$10.25



A Single and Double Wheel Cultivator in one. Used as a Double Wheel Hoe, it straddles crops until they are 20 inches high, cultivating both sides at once. Comprises 1 pair of 6-inch Hoes, 4 steel Cultivator Teeth, 1 pair of Plows, and 2 Leaf-lifters. Price \$10.25.

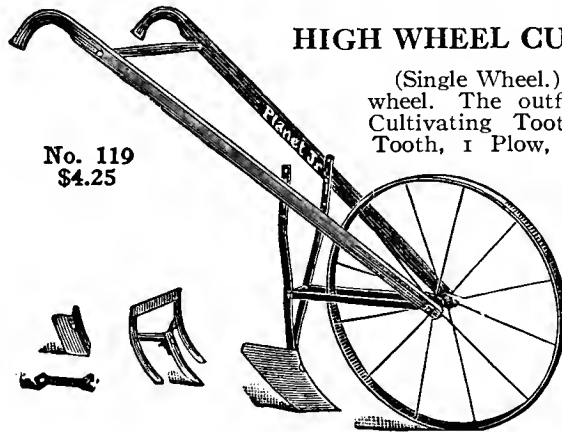
COMBINED SEEDER AND CULTIVATOR

(Single wheel.) The seed-box holds 2 1/2 quarts of seed, and the combination includes 1 pair of 6-inch Hoes, 4 Cultivator Teeth, 1 pair of Plows for hilling against the rows, 2 Leaf-guards, and 1 Marker. Price \$21.

HIGH WHEEL CULTIVATOR No. 119

(Single Wheel.) Has a special 24-inch steel wheel. The outfit consists of one 1 1/2-inch Cultivating Tooth, 1 4-inch Cultivating Tooth, 1 Plow, and 1 Reversible Scuffle Blade. Price \$4.25.

No. 119
\$4.25



FIRE FLY GARDEN PLOW

It will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep. The furrow may be deepened by going a second or third time along the row. Price \$4.

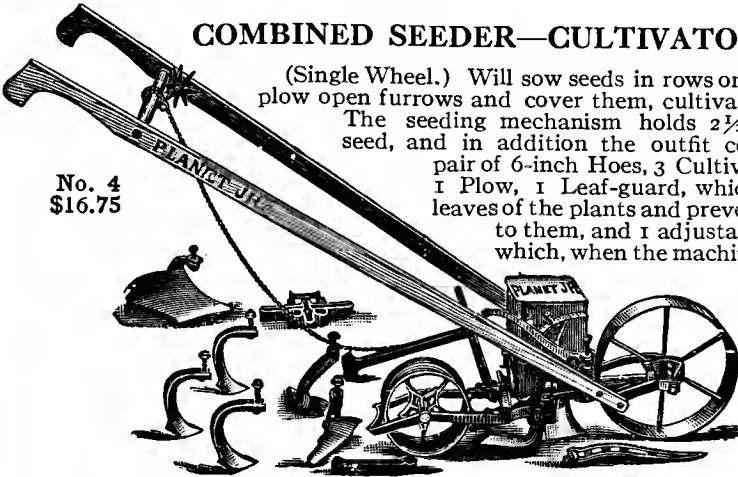


COMBINED SEEDER—CULTIVATOR No. 4

(Single Wheel.) Will sow seeds in rows or in hills; will plow open furrows and cover them, cultivate and hoe. The seeding mechanism holds 2 1/2 quarts of seed, and in addition the outfit consists of 1 pair of 6-inch Hoes, 3 Cultivator Teeth, 1 Plow, 1 Leaf-guard, which lifts the leaves of the plants and prevents damage to them, and 1 adjustable Marker, which, when the machine is sowing seed, indicates the correct location of the next row.

Price
\$16.75

No. 4
\$16.75



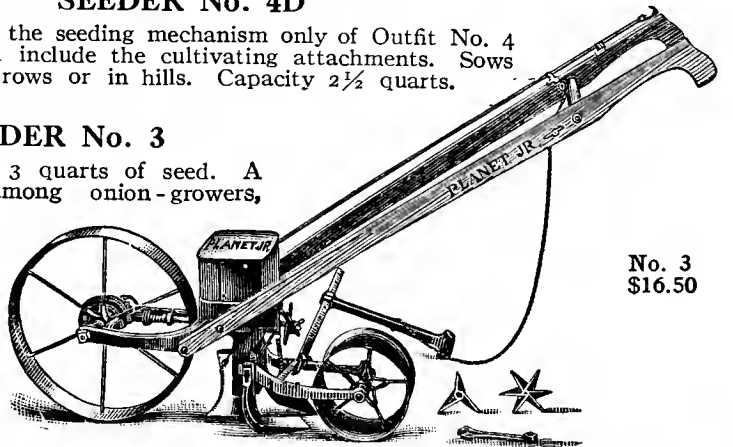
SEEDER No. 4D

Consists of the seeding mechanism only of Outfit No. 4 but does not include the cultivating attachments. Sows efficiently in rows or in hills. Capacity 2 1/2 quarts. Price \$13.50.

SEEDER No. 3

This holds 3 quarts of seed. A favorite among onion-growers, market-gardeners, and seed-growers. Sows accurately in a narrow line, making wheel-hoe cultivation easy. Price \$16.50.

No. 3
\$16.50



HOTKAPS. They Keep Plants Warm

Made of strong, weather-proof paper. Hotkaps are quickly placed in position over newly sown seeds, or newly transplanted seedlings, by means of a "Setter," and they are fixed by drawing a little soil around the edge.

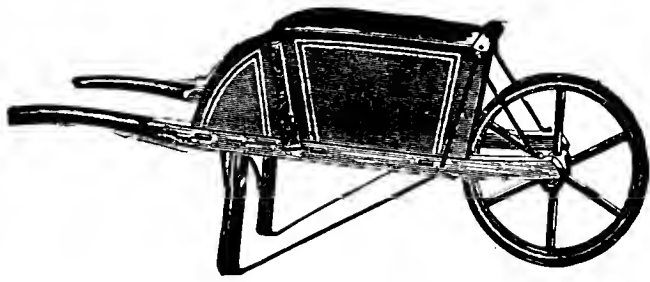
Better than coldframes, they insure against damage by late spring frosts they protect against wind, rain, and hail; they guard against insects. By the use of Hotkaps, crops may be matured sooner and an early market secured.

Protect tomato plants, pepper and eggplants with Hotkaps. Corn may be sown earlier and will yield sooner with their help. Cucumbers, muskmelons, pumpkins, and squashes grow quickly and are shielded from borers. Tomato, pepper and eggplant seeds may be sown directly in the ground, and, protected by Hotkaps, they will yield a full crop. Hotkaps are packed in 100 and 1,000 lots. Shipping weight 3 and 10 pounds respectively.

Prices, \$1.50 per 100, \$6 for 500, \$9.75 per 1,000. Steel setter for placing Hotkaps, \$2.50; Garden Setter (made of papier-mache), 50 cts. Special Home Garden Package containing 50 Hotkaps with Garden Setter, \$1.50.



Hotkaps help the Muskmelon Crop



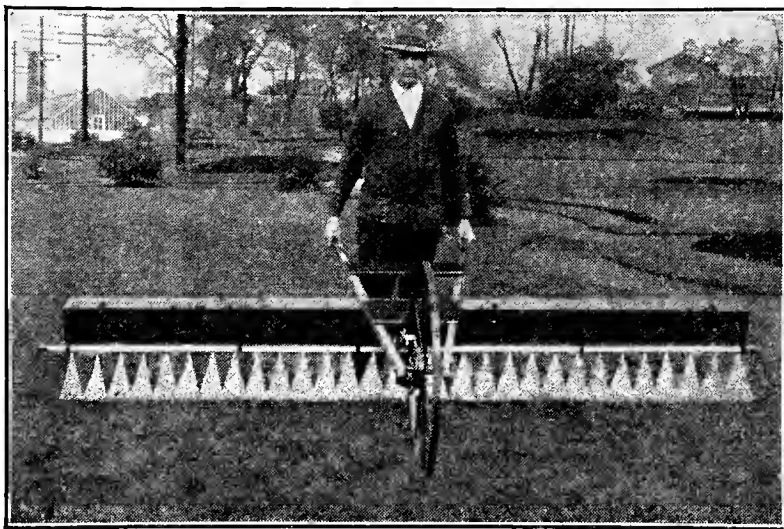
S. & W. Co.'s Garden Barrow

We guarantee the S. & W. Co.'s Barrows to be better made and more neatly finished than any other Garden Barrow on the market. Constructed of selected, clear-grained, hard wood and finished in the natural wood, varnished, they are made light and substantial for long service.

SIZE	Front Width	SIZE OF BOX		Rear Width	SIZE OF WHEEL		Price
		Depth	Length		Diam.	Tread	
Medium.....	18½ in.	12 in.	26½ in.	23 in.	20 in.	3 in.	\$8.50
Regular.....	20 in.	12 in.	28 in.	24 in.	22 in.	3 in.	9.50
Boys'.....	15½ in.	9 in.	21 in.	18 in.	16 in.	1½ in.	6.75

Sawco Turf Barrow

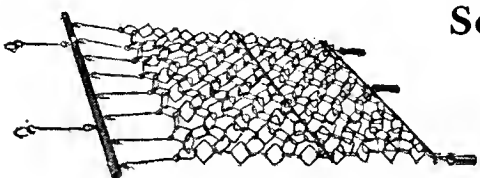
An extra-sturdy, pressed-steel-tray Wheelbarrow designed especially for use on golf courses and in cemeteries and parks. The wheel has a crowned face 4 inches wide, which allows it to be used on lawns or greens without the use of planks or boards. The shoes on the legs are also extra wide. Capacity, 3½ cubic feet. Price, \$9.50.



S. & W. Co.'s Special Grass Seeder and Sower

The 10-foot hopper, holding 1½ bushels, will sow uniformly and accurately, without bunching, the desired quantities of any kind of hay, pasture or lawn-seed mixture. The hopper is carried beneath the handles and discharges close to the ground, so wind does not affect the sowing of even the lightest seeds. Sows from 50 to 125 pounds per acre. The machine also may be furnished for sowing dry powders and Vermol Worm Eradicator.

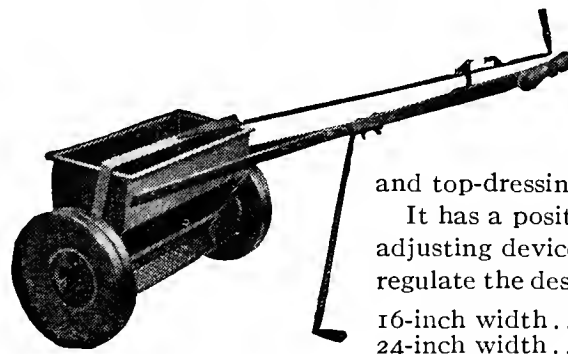
- No. 1.** For sowing grass seeds.....\$22 00
No. 2. For sowing dry powders..... 21 00
No. 3. For sowing Vermol Worm Eradicator..... 20 50



Scotch Chain Harrow

Hundreds of wrought-iron links are woven into what is practically a blanket of chain. This arrangement is ideal in smoothing the land as a final preparation for grass seeds; it may also be drawn over the soil after seeds are distributed, for the purpose of covering them. Used on driveways and racetracks, it smooths the surface, eliminating ruts and foot-prints. Small size, one-horse, 5 x 6 ft., \$25; Medium, two-horse, 6 x 7½ ft., \$35; Large, tractor, 7½ x 7½ ft., \$45.

S. & W. Co.'s Planters' Perfect Fertilizer Distributor



A simple, sturdy and efficient machine that solves the problem of even distribution of fertilizers, grass seed

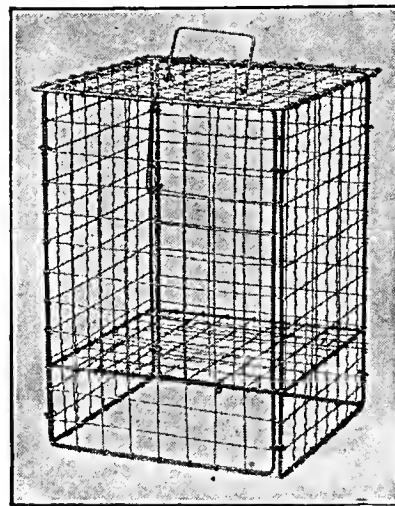
and top-dressing.

It has a positive shut-off control and adjusting device right on the handle to regulate the desired quantity to be sown.

16-inch width.....	\$9 50
24-inch width.....	13 25
36-inch width.....	17 00

Burners for Leaves, Paper, and Rubbish

This handy knock-down Burner is a safeguard against many fires that have their origin in the burning of rubbish in the open. Made to give life-long satisfaction.

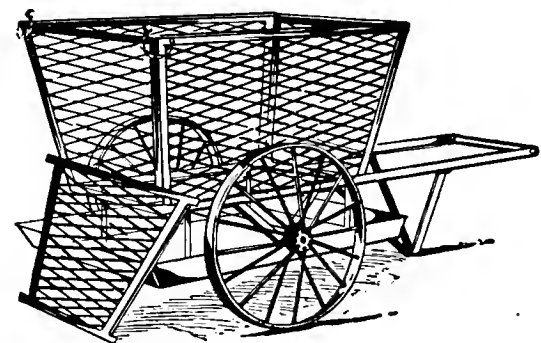


No.	Square	Height	Each
1	15 in.	22 in....	\$3 00
2	17 in.	29 in....	4 00



Wire Leaf-Rack

A practical device for transporting leaves, cut grass, and litter. Can be attached readily to any wheelbarrow having removable sides. It is made of galvanized wire bolted to a wooden base; capacity about 10 bushels. Price, Rack only, \$9; Rack and Barrow, \$17.50.



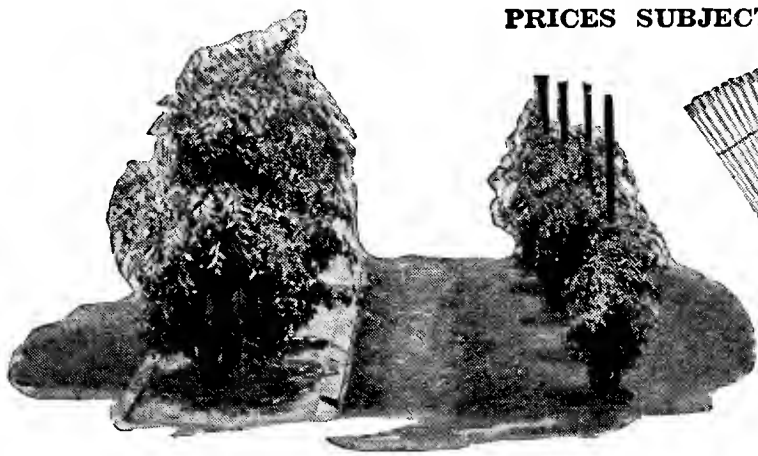
S. & W. Co.'s All-Steel Refuse and Leaf Burner

A portable incinerator for the efficient destruction of all waste matter in the garden. In reality, a two-wheeled handcart (for which purpose it can also be used) made of strong angle iron and heavy steel expanded metal netting which is fireproof and guaranteed not to burn out for years. It is fitted with broad-tired wheels, which enables it to be drawn over lawns or soft ground without injury. A strong steel pan is fitted under the axle which catches all the fire and ashes as they fall through the bottom. This pan can be emptied as needed.

	Capacity	Size of Top	Depth
No. 1.	16 cu. ft.	36 in. x 48 in.	24 in.....\$48 00
No. 2.	11 cu. ft.	30 in. x 40 in.	21 in..... 43 00
No. 3.	5 cu. ft.	21 in. x 33 in.	18 in..... 38 00

STUMPP & WALTER CO.'S GENERAL SUPPLIES

PRICES SUBJECT TO MARKET CHANGES



Mulch Paper

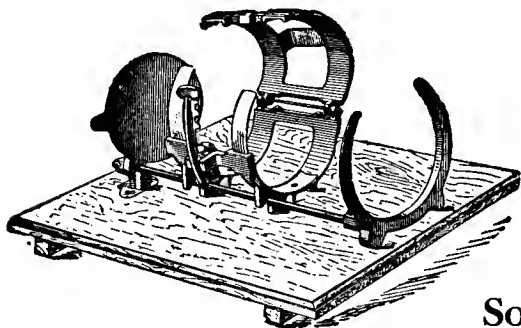
A weather-resistant, heat-absorbing, strong Paper which is placed on the soil between plants.

It stimulates, promotes, *hastens* growth by the simple expedient of raising the soil-temperature and preventing evaporation of the soil-moisture. Vegetables of all kinds, fruits and flowers growing with Mulch Paper not only mature *earlier* but experience proves they are bigger, better, have more flavor, and are in general of higher quality. Actual tests show increases in yield from the same soil of 25 to 200 per cent.

It saves labor, too. Weeds cannot come up in soil that is covered by it. They're *blanketed*.

Comes in two types, each in 18-inch and 36-inch rolls:

	Per Roll
Type A. Light weight, for annuals:	
18 in. wide, 900 ft. long, 1,350 sq. ft.	\$3 00
36 in. wide, 900 ft. long, 2,700 sq. ft.	6 00
Type B. Heavy weight, for perennials and all garden work:	
18 in. wide, 450 ft. long, 675 sq. ft.	3 00
36 in. wide, 450 ft. long, 1,350 sq. ft.	6 00
18 in. wide, 45 ft. long, 67½ sq. ft.	65



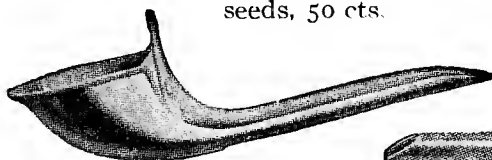
Acme Asparagus Buncher

No. 1 makes bunch 3 to 3½-inch diam. \$5 ea.
No. 2 makes bunch 4 to 4½-inch diam. Length adjustable, 7 to 9 in., \$5.25 each.

Sowrite Seed Sower

Sows Seeds at a Touch

It scatters seeds individually and prevents crowding and choking of the seedlings when coming up. For fine seeds, 50 cts. For larger seeds, 50 cts.



Large Size



Small Size

The Cahoon Improved Broadcast Seed Sower

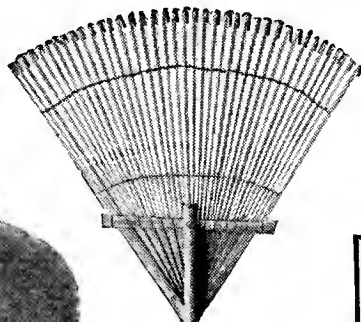
It is a practical broadcaster of wheat, rye, oats, barley, timothy, and millet. Not recommended for lawn or grass seed. The operator can sow from 4 to 8 acres per hour. \$5.25 each.

Celery-bleaching Tubes

Labor and money-savers. The brass Handler is placed around the celery plant, the tube is slipped in place and the Handler removed.

	Doz.	100	1,000
12 inches high	\$0 60	\$4 00	\$35 00
13 inches high	65	4 25	38 00
14 inches high	70	4 50	42 00

Handlers for use in placing tubes, brass, \$2.50.



Bamboo Rake

Fitted with polished wooden handle. Cleans the turf as gently as the human hand. Best quality.

	Each	Doz.
Small size	\$0 75	\$7 50
Medium size	1 10	11 00
Large size	1 35	13 50



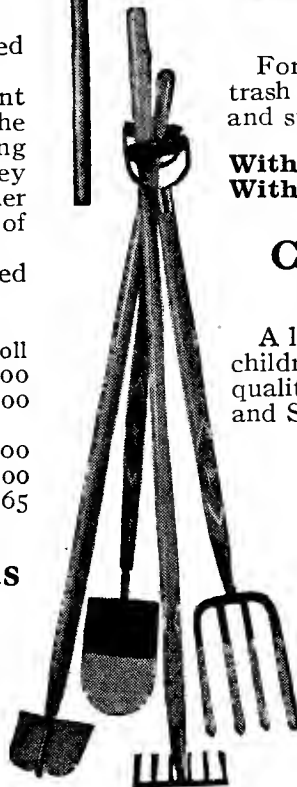
Birch Brooms

For generations the standard device for sweeping trash and leaves, generally keeping neat greenhouses and stables, roads, paths, and parking-spaces.

	Each	Doz.
With handle	\$1 00	\$10 00
Without handle	70	7 00

Children's Garden Tool Set

A light and practical Set for the children. Consists of four high-quality tools: Shovel, Hoe, Rake, and Spading Fork. \$3.50 each.



Lawncomb

The flexible, springy teeth make it very desirable for cleaning around plants, vines, shrubbery, and flower-beds. It is equally effective for cleaning gravel paths, as it removes leaves and other refuse without disturbing the gravel or crushed stone. \$1.50 each.



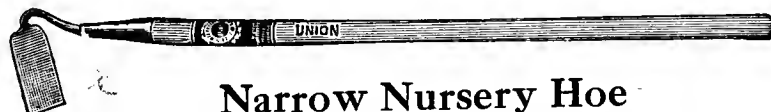
Speedy Weed Cutter

The blade is sharpened all around and cuts an even swath with each forward and backward stroke. It will not clog. \$1.25 each.



Square Top Hoe

Unequaled for well-worked garden plots where the soil is light and does not need chopping. Scrape the blade along the top of the soil and it will penetrate an inch or so, cutting off the young weeds and forming a light mulch that will conserve the moisture. \$1.25 each.



Narrow Nursery Hoe

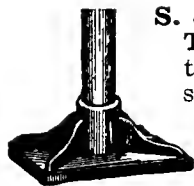
Extremely narrow Hoe designed for use in closely planted areas. As the blade is sharpened on both sides, as well as the usual cutting edge, it can be turned on either side and used for hilling around the smallest plants. \$1.15 each.

Your attention is drawn to the high quality FERTILIZERS offered on pages 174 and 175. All "S. & W. Co." or "Sawco" Brands are our own manufacture.

Garden and Lawn Tools

PRICES SUBJECT TO
MARKET CHANGES

Tampers



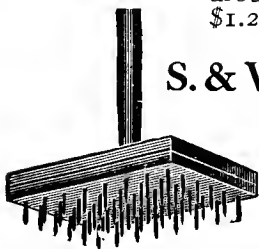
S. & W. Co.'s Iron Sod Tamper. Used when laying turf and for compacting the sod after frost. The Tamper is square and is furnished complete with a 4-foot handle.

Size	Weight	Price
8 by 8-in.	14 lbs.	\$1 75
10 by 10-in.	18 lbs.	2 50



Combination Hoe and Rake

Will be found very useful around the garden. Price, \$1.25 each.



S. & W. Sod Perforator

The best low-priced device for renovating bare spots in lawns. Use before sowing grass seeds, permitting the seeds to enter the soil.

The spikes are set firmly in an oak block, made in two halves and put together with screws. A 4-foot handle is included. 10 by 12 ins. \$4.50.



Sawco Lawn Cultivator Rake

This consists of a heavy, solid head, carrying 13 curved, sharp-pointed and sharp-edged teeth. The

Cultivator Rake tears out clover or crabgrass and roughens the turf to prepare it for reseeding. With handle, \$2.50 each.



Sod Lifters

English Pattern. Heart-shaped, strong, and highly efficient. \$8.50 each.

American Pattern. Preferred by many on account of its light weight. \$2.25 each.

English Digging Forks

Four-tine, D-Handle, \$2.50.

Magic Weeder Hoe

Style A. 3-prong Weeder. 25 cts. each.

Style D. 4-prong Weeder and Hoe. 60 cts.

Turf Edgers for Lawns

Solid Welded-Steel Edging Knife. Without handle; made of the very best steel; imported English. 8-inch, \$2.50; 9-inch, \$3.

Half-Moon Edging Knife. Solid steel, with a polished handle. \$1.25.

Planet Jr. Revolving Disc Edger

A very dependable implement; easy to handle. \$1.50 each.



Forks

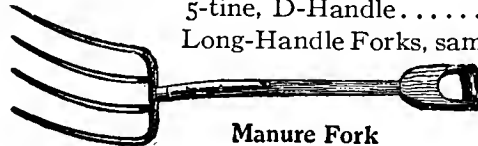


Spading Fork

Spading Forks. Best grade; tines spear-pointed with diamond-shaped backs; handle strapped both sides. Of superior quality and very strong. Each

4-tine, D-Handle	\$1 75
5-tine, D-Handle	2 25

Long-Handle Forks, same price.



Manure Fork

Manure Forks. Best grade; strong oval tines. Each

4-tine, D-Handle	\$1 50
5-tine, D-Handle	1 75
6-tine, D-Handle	2 00

Long-Handle Forks, same price.

Hay Forks. With long handles. Each

3-tine, Long Handle	\$1 50
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Boys' Spading Forks. 1 25



Norcross Cultivator Hoe and Weeder

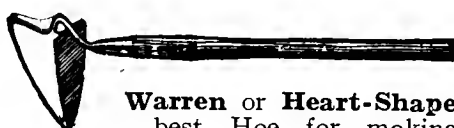
Wherever vegetables, plants and flowers are grown, these modern tools are rapidly replacing the ordinary hoe. They are made in three sizes, and can be used in wide or narrow rows. Will also cultivate both sides of a row at one operation, when the middle prongs are removed. The three-prong weeder is the women's size. They destroy weeds, leave the soil level, loose and untrampled. 5-prong, \$1.25; 3-prong, 85 cts.; Midget, 50 cts.



Hoes

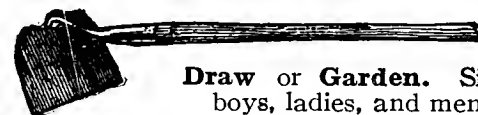
English Scuffle Hoe. Complete with handle. Imported. Positively the best. The quality of material used and finish is superior to all others.

Size	Each	Size	Each
4-in.	\$1 60	8-in.	\$2 00
5-in.	1 70	9-in.	2 10
6-in.	1 80	10-in.	2 20
7-in.	1 90		



Warren or Heart-Shaped. The best Hoe for making drills, covering, hoeing, and weeding. Each

Small size	\$1 35
Medium size	1 50



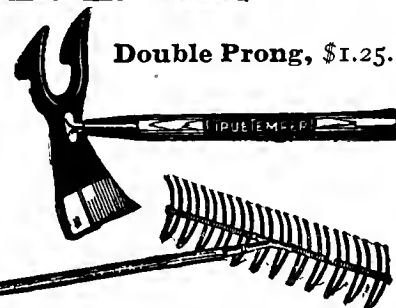
Draw or Garden. Sizes for boys, ladies, and men. Each

5-in.	\$0 85
6-in.	1 00
7-in.	1 10

HOES, continued



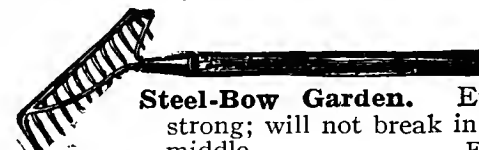
Acme Single Prong. Acme Hoes with 6-inch blade, are similar to the Warren, and are used by florists and gardeners. \$1 each.



Double Prong, \$1.25.

Rakes

Reversible Steel. Suitable for lawn and garden. Has 24 teeth. 90 cts. each.



Steel-Bow Garden. Extra strong; will not break in the middle. Each

12-tooth	\$1 25
14-tooth	1 35
16-tooth	1 50

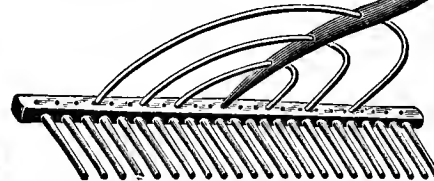


Steel Garden. Cut from one piece of steel; strong and durable. Polished teeth. Each

10-tooth	\$1 10	14-tooth	\$1 30
12-tooth	1 20	16-tooth	1 40

Steel Gravel. Like the Garden Rake. Made substantially, with short teeth. Each

14-tooth	\$1 25
16-tooth	1 35
18-tooth	1 60



Wood Hay and Lawn. Made especially for us with an extra-heavy head to give double service. Each Doz.

14-tooth Hay	\$1 20	\$12 00
24-tooth Lawn	1 50	15 00

Shovels



Ames Shovel

Ames Shovels are the best manufactured; give best service. Each

Square Point, D-Handle	\$2 50
Round Point, D-Handle	2 50

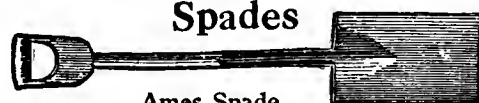
Long-Handle Shovels, same price.

S. & W. Co.'s Shovels.

Square Point, D-Handle	1 75
Round Point, D-Handle	1 75

Long-Handle Shovels, same price.

Spades



Ames Spade

Ames Spades are the same grade as the Ames Shovels. Each

D-Handle and Long Handle	\$2 50
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S. & W. Co.'s Spades are the same grade as S. & W. Co.'s Shovels. Each

D-Handle and Long Handle	\$1 75
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Boys' Spades. 1 75

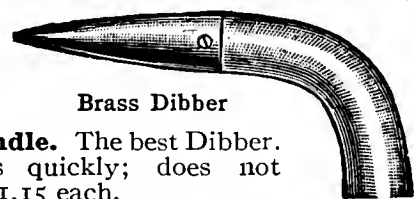
Small Garden Tools

PRICES SUBJECT TO
MARKET CHANGES

Dibbles or Dibbers

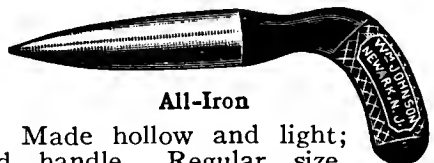
Just the tool for transplanting tomatoes, cabbage, celery, etc.

Brass point and wood handle. The best Dibber. Polishes quickly; does not rust. \$1.15 each.



Brass Dibber

Steel point and wood handle. Regular size, 9 3/4 in., 85 cts. each. Small size, 8 in., 75 cts. each.



All-Iron

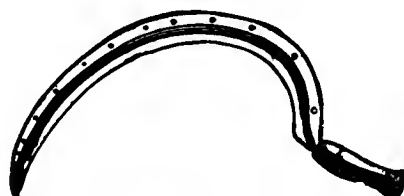
All-Iron. Made hollow and light; japanned handle. Regular size, 9 3/4 in., 75 cts. each.



Gem Hand Fork

Has three steel prongs and finished handle. Is a handy Fork for transplanting strawberries, loosening the soil, etc. 50c. each.

Grass Hooks



Imported English. With heavy riveted back, thin cutting blade, easy to sharpen; forged from the best-grade steel. Medium, 85 cts.; Large, \$1.

Long-handled. Forged, 12-inch ribbed blade; 44-inch handle. \$1.25 each.

Grass and Lawn Scythes



Imported English. Has a riveted back, broad, thin, light blade. Best Scythe for cutting grass, rye, oats, etc.

32-inch. Medium.....\$3 00

34-inch. Large medium.....3 25

36-inch. Large.....3 50



Domestic. Cutlery steel, natural oil finish, cutting edge, web and backs polished.

32-in. Med...\$2 00 | 36-in. Large...\$2 25

Scythe Snath or Handle. The very best, with patent socket. \$2.50.

Scythe Stones, Genuine English. Round, tapering. 35 cts. each.

Unbreakable Radiac. 30 cts. each, \$3 per doz.

Scythe Rifles, Emery-coated. 25 cts. each, \$2.50 per doz.

Mole Traps

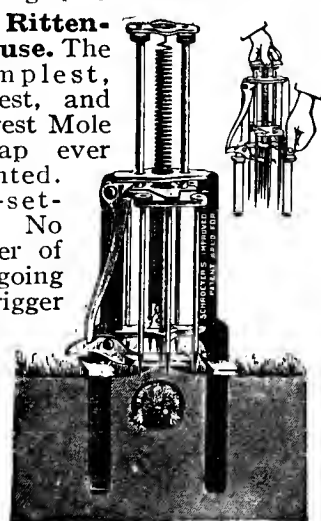
Schroeder Improved No. 1. It has a rest on top for a weight, also eight sharp prongs and a strong spiral spring. \$2 each.

The Rittenhouse. The simplest, safest, and surest Mole Trap ever invented.



The Rittenhouse

Self-setting. No danger of its going off unless the trigger is touched. Made of all steel and tinned. Six in a crate. The spears are spring steel, therefore not so long as soft steel. \$1.10 each.



Schroeder Improved

Garden Line Reels

Malleable Iron. Holds 100 feet. \$1.25.

Eureka. Galvanized steel. Single, 500 feet size, \$3.25. Double, 1,000 feet size, \$4.



Line Reel

Garden Line

Best Braided Linen. 100 feet, one length, \$1.75. 200 feet, one length, \$3.50.

Trowels



Slim Jim. Excellent for setting bulbs or transplanting. 5-in. size, 20 cts.; 7-in. size, 30 cts. each.



Forged Steel. This Trowel is second to the Stumpwall Trowel in quality and finish. The blade and shank are one piece, forged out of the best of steel. Made in three sizes. 5-in., 65c. each; 6-in., 75c.; 7-in., 85c.



The Stumpwall is the best made Trowel. The ferrule and shank, as well as the blade, are forged in one piece. Only the very best material used. 6-in., 85 cts. each.

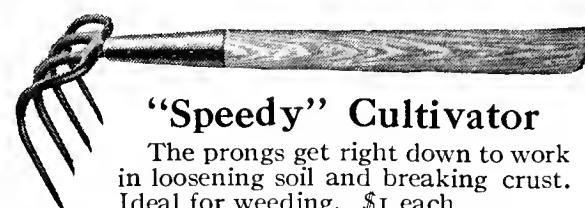


Florists' Steel Trowel

This Trowel is made in one piece of heavy sheet steel. One size only, 6-in., 35 cts. each.



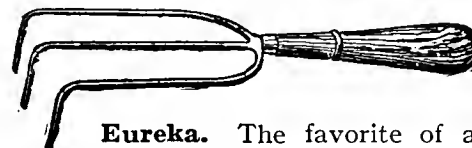
Cleveland Lawn Weeder



"Speedy" Cultivator

The prongs get right down to work in loosening soil and breaking crust. Ideal for weeding. \$1 each.

Weeders



Eureka. The favorite of all hand Weeders. The three solid steel prongs are set 1 1/2 inches apart to allow cultivating between two or more plants at once. Short handle, 60 cts. each. Larger size, 24-inch handle, 70 cts. each.

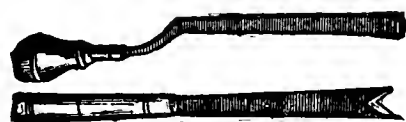
Scythe Bush

High-grade steel blade. 18-in., \$2 each; 20-in., \$2.25 each.



Bush Hook

Forged steel. 3 1/4 lbs. Including handle, \$3 each.



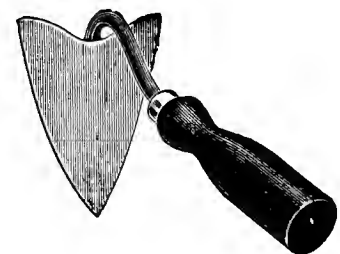
Asparagus Knives

American Asparagus Knives. Straight Edge. 45 cts. each. V-Shape. 45 cts. each.

Dandelion Digger



Used for digging out Dandelions from lawns. Blade, 6 inches. 55 cts. each, \$5.50 per doz.



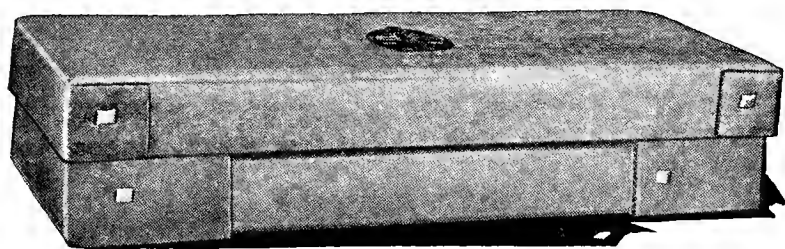
Midget Warren Hoe. Blade and shank forged from the best quality of steel. Handle is turned, polished, and enameled. Excellent for making drills and covering; also for transplanting and weeding. 75 cts. each.

Cleveland Lawn Weeder. Is simple to operate; it not only saves the back, but is actually a pleasure to use. The cut is a good illustration, showing how to work it. \$1.50 each.



Flower Boxes, Pots and Fibreware

PRICES SUBJECT TO
MARKET CHANGES



Corrugated
Flower Box

Flower Boxes

Cardboard, Flower. Ivy green; lock corners.

No.	Depth	Length	Width	Doz.	100
No. 1.	3 in.	18 in.	5 in.	\$1 00	\$6 00
No. 2.	3 in.	21 in.	5 in.	1 20	7 00
No. 3.	4 in.	24 in.	8 in.	1 75	10 50
No. 4.	5 in.	28 in.	8 in.	2 25	13 00
No. 5.	5 in.	36 in.	8 in.	2 50	16 00

Corrugated Cardboard. Very heavy and durable; extensively used by florists for shipping cut-flowers.

No.	Doz.	100	No.	Doz.	100
A 20 x 7 x 4 in.	\$2 00	\$12 00	D 36 x 14 x 8 in.	\$4 25	\$25 00
B 28 x 8 x 5 in.	2 50	15 00	E 48 x 14 x 8 in.	5 00	30 00
C 30 x 12 x 6 in.	3 25	19 00	F 36 x 12 x 6 in.	4 00	23 00

Paper

Wax. 18 x 24 in., ream	\$1 75
24 x 36 in., ream	3 25
Tissue. 24 x 36 in., ream	2 50
Manilla. 24 x 36 in., ream	2 50
Wrapping Paper, Kraft. 40 x 48 in., ream	4 50
Wrapping Paper, Kraft, in rolls,	Per Roll
24-inch (approximately 36 lbs.)	\$3 75
30-inch (approximately 45 lbs.)	4 75
36-inch (approximately 54 lbs.)	5 50
Crepe Paper, Green, Waterproof	60

Fibreware Flower Vases

WATERPROOF

Deep shade of mahogany color.

No.	Depth	Diam.	Each	Doz.
1	10 in.	6 in.	\$1 50	\$15 50
33	12 in.	4 3/4 in.	1 60	16 50
44	8 3/4 in.	3 1/2 in.	1 25	12 00
22	15 in.	4 1/2 in.	2 25	23 00
11	18 in.	6 in.	2 75	27 50

Galvanized Heavy Wire Hanging-Baskets

For decorating the porch, piazza, or sun-parlor.

8-in.	Each	Doz.
\$0 85		
10-in.	90	
12-in.	1 00	
14-in.	1 15	

Galvanized Iron Flower Vases

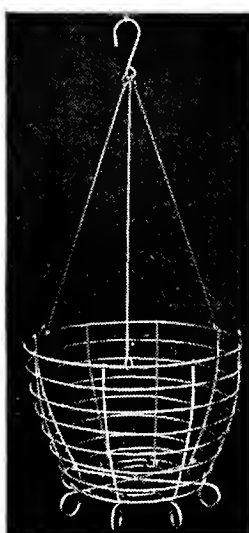
PAINTED GREEN

No.	Height	Top diam.	Each	Doz.
1.	10 in.	4 3/4 in.	\$0 65	\$6 50
2.	12 in.	6 1/2 in.	1 00	10 00
3.	13 1/2 in.	6 1/2 in.	1 10	11 00
4.	15 in.	6 1/2 in.	1 20	12 00
5.	17 in.	6 1/2 in.	1 35	13 50

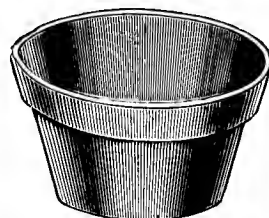
Azalea Pots

These pots differ from standard flower pots in that they resemble the bulb pans but are deeper.

Diam.	Each	Doz.	100
6 in.	\$0 15	\$1 50	\$10 00
7 in.	25	2 50	15 00
8 in.	30	3 00	22 00
9 in.	50	5 00	40 00
10 in.	70	7 00	50 00



Galvanized Wire
Hanging-Basket



Azalea Pot

Flower Pots, Standard

EARTHENWARE. Best on the market

Diam.	Each	Doz.	100	1,000
2 in.		\$0 25	\$1 50	\$12 00
2 1/2 in.		30	1 75	15 00
3 in.		40	2 50	20 00
4 in.		60	4 00	30 00
5 in.	\$0 10	1 10	7 00	55 00
6 in.	15	1 60	10 00	82 00
7 in.	25	2 60	16 00	130 00
8 in.	35	3 20	20 00	180 00

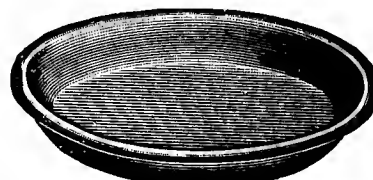
On orders of 50 pots or more we make shipment direct from factory to customer.

**Saucers of same material, to fit
Pots, furnished extra**

Diam.	Each	Doz.	100
4 in.	\$0 05	\$0 40	\$3 00
5 in.	05	50	3 80
6 in.	10	70	5 50
7 in.	10	90	7 25
8 in.	15	1 40	10 60
9 in.	20	1 90	14 50



Flower Pot



Flower-Pot Saucer

Flower-Pot Saucers

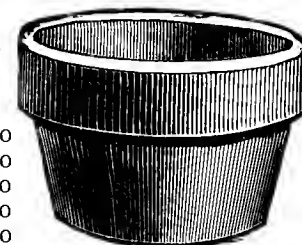
FIBREWARE. Waterproof

Order saucer 2 inches larger than the bottom diameter of pot.

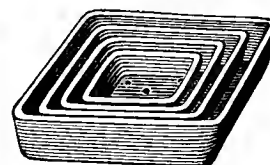
Diam. Inside	Each	Doz.
8 1/2 in.	\$0 65	\$6 60
10 1/4 in.	90	8 75
12 1/2 in.	1 35	13 00
14 1/2 in.	1 65	16 00
16 in.	1 90	18 50

Bulb Pans. EARTHENWARE

Diam. at top	Each	Doz.	100
6 in.	\$0 15	\$1 50	\$10 00
7 in.	25	2 50	15 00
8 in.	30	3 00	22 00
9 in.	50	5 00	40 00
10 in.	70	7 00	50 00
12 in.	1 25	12 50	90 00



Bulb Pan



Square Seed Pans

Square Seed Pans

EARTHENWARE

Size	Each	Doz.
6 x 6 in.	\$1 10	\$13 00
8 x 8 in.	1 40	15 00
10 x 10 in.	1 75	19 00
12 x 12 in.	2 20	24 00

Paper Flower Pots, Neponset

Very economical; waterproof; can be nested closely for shipping.

Diam.	Doz.	100	1,000
2 1/4 in.	\$0 10	\$0 65	\$4 50
2 1/2 in.	15	70	5 00
3 in.	20	85	7 25
3 1/2 in.	25	1 20	9 00
4 in.	30	1 75	11 25
5 in.	40	2 20	15 00
6 in.	50	2 75	20 00



Paper Pot

Flower-Pot Brackets

Made of steel, artistic in design, finished in black. Saucers are absolutely secured by spring clasp

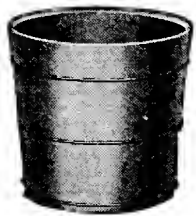
No.	Length of arm,	Clasp will hold	Each
No. 1.	7 in.	5-in. pot.	\$0 65
No. 2.	8 in.	6-in. pot.	75
No. 3.	10 in.	7-in. pot.	90

Waterproof Green Flower-Pot Covers

To fit 4-, 5-, and 6-in. standard clay pots.

	12	25	100
4 in.	\$0 50	\$0 90	\$3 25
5 in.	60	1 10	3 75
6 in.	70	1 30	4 25

Barclay Tree Tubs



Made of seasoned, selected, Virginia white cedar; bound with electric welded wire hoops (galvanized), three hoops to each, except the two smallest tubs which have two.

No.	Inside Top diam.	Inside Depth	Price Each
1.....	6 in.....	6 in.....	\$0 60
2.....	7 in.....	7 in.....	65
3.....	8 in.....	8 in.....	70
4.....	9 in.....	9 in.....	75
5.....	10 in.....	10 in.....	90
6.....	11 in.....	10 in.....	1 10
7.....	12 in.....	11 in.....	1 35
8.....	13 in.....	12 in.....	1 60
9.....	14 in.....	13 in.....	1 90
10.....	15 in.....	14 in.....	2 25

New York Cedar Plant Tubs



Made of the choicest seasoned selected Virginia White Cedar. These tubs are painted both inside and out with best oil-paints, and the hoops and castings are trimmed in a jet-black paint. Will outlast by many years the tubs made of any other known wood.

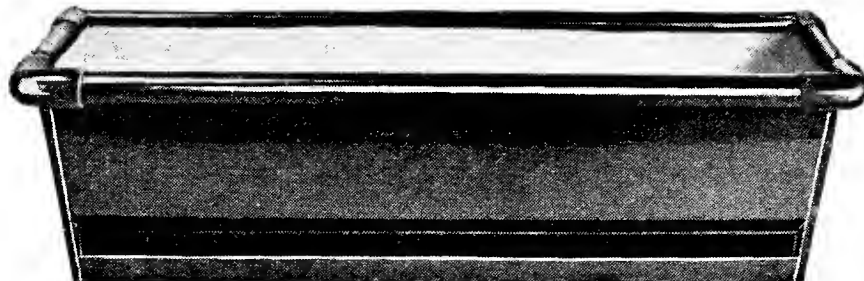
No.	Diam.	Height	Price
1.....	12 in.....	10 1/2 in.....	\$2 50
2.....	13 in.....	13 in.....	3 25
3.....	14 1/2 in.....	15 in.....	4 00
3 1/2.....	16 1/2 in.....	15 1/4 in.....	5 25
4.....	19 1/2 in.....	17 in.....	6 00
5.....	22 1/2 in.....	18 1/2 in.....	7 25

S. & W. Co.'s Irrigating Flower-Boxes and Irrigating Hanging-Baskets

S. & W. Co.'s Flower-Boxes and Hanging-Baskets make it easy to have all the flowers you want, for all plants thrive in these unique receptacles.

They are strongly made, water-tight, galvanized sheet-steel Boxes, attractively finished with a baked-on enamel in dark green. Their neat design harmonizes with any surroundings.

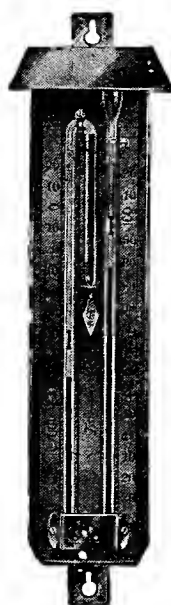
S. & W. Co.'s Irrigating Flower-Boxes



Length	Width	Depth	Each	Length	Width	Depth	Each
24 in....	8 1/2 in....	6 1/4 in....	\$1 50	42 in....	8 1/2 in....	6 1/4 in....	\$3 50
30 in....	8 1/2 in....	6 1/4 in....	2 00	48 in....	8 1/2 in....	6 1/4 in....	4 00
36 in....	8 1/2 in....	6 1/4 in....	2 75				

S. & W. Co.'s Irrigating Hanging-Baskets

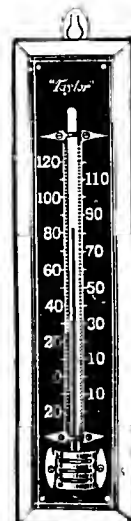
10 in. square, 7 1/4 in. deep.....	\$1 75	16 in. square, 12 1/4 in. deep.....	\$3 50
12 in. square, 8 1/4 in. deep.....	2 25	18 in. square, 12 1/4 in. deep.....	4 25
14 in. square, 10 1/4 in. deep.....	2 75		



5452



5400



5120



5154S



5420



5981

Thermometers

No. 5452, Self-Registering. (Siege's Pattern.) Lacquered polished brass case, white figures. **Maximum and Minimum.** 10-inch, \$7. Magnet with each.

No. 5400. Black japanned heavy tin case; brass scale, white figures. (Mercury.) Scale range 10 to 40 degrees below zero to 120 above. **Standard Grade.** 8-inch, \$1.75; 10-inch, \$2.

No. 5420. Black japanned heavy tin case. For greenhouses. Black oxidized brass scale, white figures. (Spirit.) 8-in. \$1; 10-in. \$1.25.

No. 5154S. Coppered tin case; distance reading. Black oxidized brass scale, white figures. (Spirit.) Scale range, 120 degrees above to 40 degrees below zero. 8-inch, 85 cts.

No. 5120. Distance reading. Wood-back Mission finish, brass scale, white figures and graduation. (Spirit.) Easy to read at distance. 8-inch, \$1.25.

No. 5981. Hotbed. Wood frame, 15 inches. with point. Brass oxidized scale, white figures and graduations. Best grade, mercury-filled bulb-chamber giving good contact. Price, \$3.



Duo-Disc

A new weeder and edger

The sharp, high carbon-steel disc takes up the weeds with the greatest ease and covers the most ground-surface of any weeding tool. As a turf-edger, it is the most rapid, easiest working, light-weight hand-tool in use. \$1.50 each.

Lawn Fans

Seven-Leaf

The universally used rose-support. Painted white. Made in three sizes:

	Each
5 ft. high.....	\$1 25
6 ft. high.....	1 50
8 ft. high.....	1 75



Dubois Woven Wood Fence

Dubois Woven Wood Fence is made of split, live chestnut saplings which have first been carefully matched and then woven together against horizontal braces with heavy, non-rusting Copperweld wire to form a *solid screen*. When new the saplings are a natural brown which mellows, as time goes on, to a beautiful, soft, silver-gray tone that only Nature can achieve.

One of the greatest advantages of Dubois is that it *blends* with any landscape as readily as fine old shade trees. Another is that it never requires painting or other maintenance expenses. With it, the first cost is the last.

The erection of Dubois is a simple matter. No skilled labor is required. You need only a framework of posts and cross-pieces. Against this framework the sections of Dubois are simply nailed. Erection methods may be varied to suit special conditions.

Dubois comes in sections 5 feet long, in six heights. Gates to match can be had at additional cost.

Per lineal ft.		Per lineal ft.	
6 ft., 6 in. high.....	\$1 95	10 ft. high.....	\$2 85
4 ft., 11 in. high.....	1 65	8 ft. high.....	2 45
3 ft., 10 in. high.....	1 45	1½ ft. high.....	75
		3 ft. wide	10 ft. wide
		Walk-Gates	Double-Driveway
6 ft., 6 in. high.....		\$21 50	\$45 00
4 ft., 11 in. high.....		19 50	42 50
3 ft., 10 in. high.....		18 50	40 00



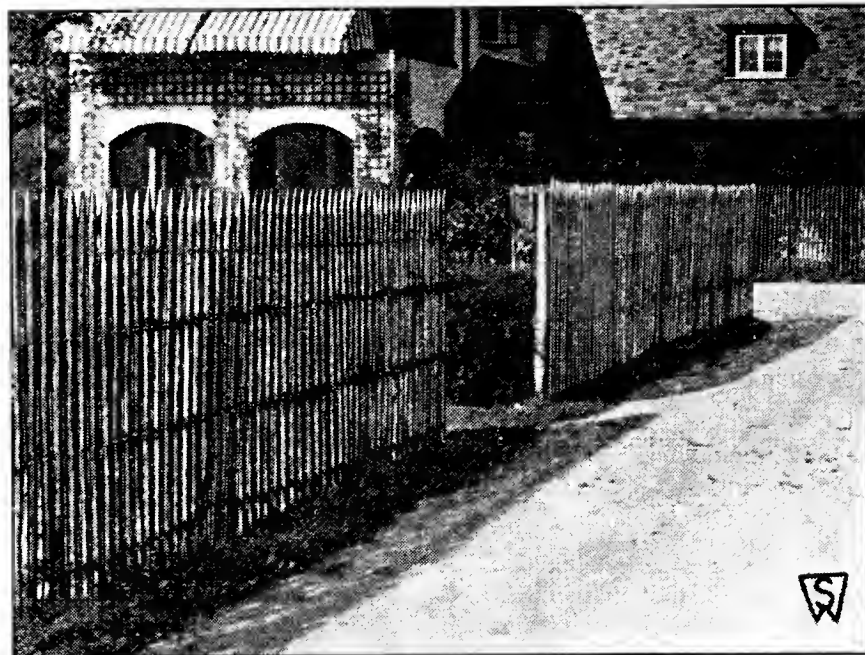
Bird-Houses

Encourage the birds; they are your friends. They have a keen appetite for grasshoppers, grubs, beetles, flies, and other pests. You can easily find places for Bird-Houses on your fences and trees, and we can offer same as follows:

No.	Type	Families	Width	Height	Depth	Each
1.	Log-Cabin.....	1	10 in.	10 in.	10 in.	\$2 25
2.	Log-Cabin.....	2	10 in.	12 in.	14 in.	3 75
3.	Log-Cabin.....	2	14 in.	12 in.	17 in.	4 50
4.	Colonial.....	2	14 in.	17 in.	16 in.	7 00
5.	Colonial.....	4	14 in.	18 in.	19 in.	8 50
6.	Hexagonal.....	2	12 in.	14 in.	12 in.	4 50
	Bird-Shelters....		12 in.	10 in.	17 in.	3 50

Blue Martin-House.

Hexagonal.....	12	22 in.	24 in.	22 50
8-ft. pole, \$6 extra.				



Cleft Chestnut Fencing

Cleft Chestnut Fencing is made of roughly split saplings, but spaced about 1 inch apart and bound with galvanized wire. Makes a splendid caddy enclosure.

Furnished in rolls 16 feet long. Comes in three heights. (Gates to match can be furnished at additional cost.)

		Per lineal ft.	
6 ft., 6 in. high.....		\$0 90	
4 ft., 11 in. high.....		65	
3 ft., 10 in. high.....		50	
		3 ft. wide	10 ft. wide
		Walk-Gates	Double-Driveway
6 ft., 6 in. high.....		\$15 00	\$35 00
4 ft., 11 in. high.....		13 50	32 50
3 ft., 10 in. high.....		12 00	30 00



English Type Hurdle Fencing

Made of split chestnut lumber. It is 8 feet, 3 inches long. The posts are 6 feet high and extend 18 inches into the ground. When set, the fence is 4 feet high.

The posts of one hurdle lock with those of adjoining hurdles by means of wooden pins which are supplied with them. Strong enough for any purpose, yet readily portable.

The hurdles are made in two styles, 4 and 5 bars, all of which are the same length and height, the difference being in the spacing between the bars. (Gates to match may be had at additional cost.)

		Each	4 ft. wide	10 ft. wide
4-bar Hurdles....	\$2 65		\$5 00	\$8 00
5-bar Hurdles....	2 85		5 25	8 25
4-bar Hurdle Gates....				
5-bar Hurdle Gates....				

Baskets and Hampers

They Make Gardening Easier



A. Fruit and Vegetable Hamper

Made of oak, well protected with heavy elm bands and heavy cleats under the bottom. Fitted with wood covers, equipped with hinges and a hasp for padlock. For the safe shipment of fruits and vegetables.

	Length	Width	Depth	
1 -bus. size	21 in.	12 in.	12 in.	\$6 00
1 1/2-bus. size	24 in.	17 in.	11 in.	6 50
2 -bus. size	24 in.	17 in.	13 in.	7 00

B. Bamboo Basket

Also known as Long Island Potato Basket. Woven split rattan; handle opening under rim. Well made. A very good Basket for potatoes.

1/2-bus. size	\$1 75
Bus. size	2 25

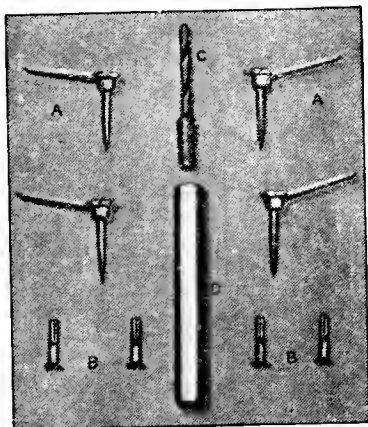
C. General-Purpose Basket

Handy for carrying corn, coal, wood, vegetables, leaves and rubbish, etc. Best oak splint. Made strong.

1-bus. size	\$1 75
1 1/2-bus. size	2 25
2-bus. size	2 75
3-bus. size	3 50

Bird Netting

For the protection of strawberry beds and fruit trees against birds. 1-in. mesh only, in 20- and 30-ft. widths. \$1.75 per 100 sq. ft.



Vyn-Tach Hooks

Attach your climbing roses and other vines to masonry or wooden surfaces.

Vyn-Tach Hooks for Masonry.

Complete set of 25 Vyn-Tach Hooks (a) and 25 Dryvin Shells (b) with drill (c), drill-holder (d), and full instructions for installing in concrete, brick, or stucco. \$2 per Set complete.

Vyn-Tach Hooks for Wood. 25 Vyn-Tach Hooks, \$1.

D. Gardeners' Baskets

Extra-strong and durable Baskets for gathering heavy fruits and vegetables. Made with bamboo and strapped with galvanized iron.

No. 1.	20 1/2 x 13 1/2 x 7 in. deep	\$2 25
No. 2.	23 x 14 1/2 x 8 in. deep	2 50
No. 3.	24 x 15 1/2 x 9 in. deep	2 75

E. Picking Basket.

A handy Basket for picking fruit and gathering eggs, etc. Best oak splint, stiff bail, light and well made.

1/4-bus. size	\$1 00
1/2-bus. size	1 50

F. English Garden Baskets

Durable, light and handy for cut-flowers or vegetables.

No.	Each
5. 16 1/2 x 9 in.	\$2 00
6. 18 1/2 x 10 in.	2 25
7. 21 x 11 in.	2 75

G. Flower and Fruit Basket

This Basket is made light and especially for gathering cut-flowers, berries, grapes, asparagus, and small vegetables.

Length	Width	Depth	
13 in.	13 in.	3 1/2 in.	\$0 65
20 in.	12 in.	3 1/2 in.	75
22 in.	14 in.	3 1/2 in.	1 00

Magno Garden Marker

The glass top (a) enlarges the lettering on the name-card (b) more than twice its actual size, making it easy to read at a distance. The collar (c) holds name-card and glass on base (d) making complete label (e). Rust-proof, water-proof, sturdy, practical, and durable, 12 1/2 inches long. 30 cts. each, \$3 per doz., \$22.50 per 100.



Horsehide

Horsehide

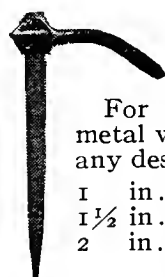
Dogskin

Best Quality Gardeners' Gloves

Horsehide Garden Glove without Gauntlet. For general garden or household use. Sizes, 7 1/2, 8, 8 1/2, 9, and 10. \$1.25 per pair.

Horsehide Garden Glove with Gauntlet. A very strong and serviceable Glove. Sizes, 7, 7 1/2, 8, 8 1/2, 9, and 10. \$2 per pair.

Genuine Oil-Tanned Dogskin Garden Gloves. With long wrist, that comes well up on the arm, so as to prevent any dirt getting into the Glove itself. It is elegant and comfortable in fit and wear, being soft and pliable under all conditions. Sizes 7, 7 1/2, 8, 8 1/2, 9 and 10. \$2.25 per pair.



"Beat All" Wall Nail

For training vines, ramblers, etc. Made of metal with pliable lead tip which can be bent to any desired position.

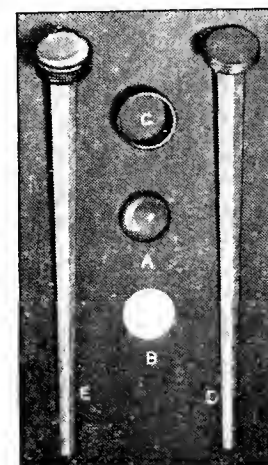
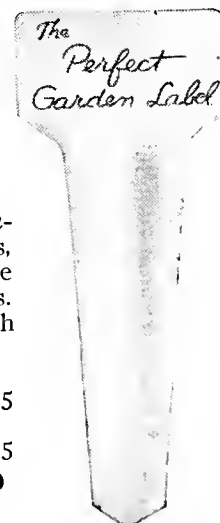
	Doz.	100
1 in.	\$0 35	\$2 25
1 1/2 in.	40	2 75
2 in.	50	3 25

Perfect Garden Label

Ordinary lead-pencil markings on this Label are permanent without any protection, in all weathers, all soils, all season, above or under the soil. Inconspicuous—the beautiful color blends with plants, soil, and rocks. Economical—the markings can be completely erased with pencil eraser and Label marked again at any time.

	Doz.	100
Standard size (marking space 2 x 1 1/4 in.)	\$1 00	\$7 75
Rock-garden size (marking space 1 3/8 x 3/4 in.)	90	6 75

Other types of Labels will be found listed on page 160

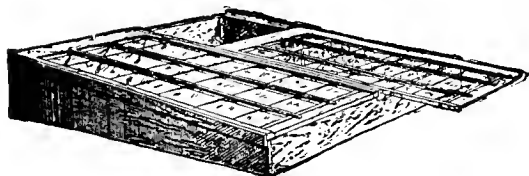


Magno Garden Marker

Miscellaneous Garden Supplies

PRICES SUBJECT TO
MARKET CHANGES

Hotbed Sash and Frames



Stumpp & Walter Co.'s Standard Hotbed Frames are made of high-quality, selected cypress, free from knots and blemishes. The back depth of frame is 16 inches, front depth, 8

inches, thus providing the necessary pitch to carry away rain and snow.

No. 2 Frame, with two 3 x 6-ft. sash, \$29; without sash, \$15.

No. 3 Frame, with three 3 x 6-ft. sash, \$39.50; without sash, \$18.50.

No. 4 Frame, with four 3 x 6-ft. sash, \$50; without sash, \$22.

No. 5 Frame, with five 3 x 6-ft. sash, \$60; without sash, \$25.

Half-width Frame. Made of the same lumber and painted exactly as our full-sized frames. 3 x 3-ft. Frame complete with glazed sash, \$13.50; without sash, \$7.50.

Single Light Sash. Standard size, 3 x 6 ft. Made of selected cypress, free from knots and blemishes. Mortised and leaded joints. Three rows of 10 x 12-in. double-thick glass, iron cross-bar across the center. Finished with two coats best white lead. \$7 each; \$80 per doz.

Double Light Sash. Standard size, 3 x 6 ft. Similar to the Single Light Sash but made with two layers of glass, providing an air-chamber or insulator, which keeps the warmth in and the frost out. With the Double Light Sash it is not necessary to use mats or covering in cold weather. \$10 each.

Hotbed Mats

Burlap Hotbed Mats. Warmly lined with waste wool and cotton, quilted in to hold position.

Each Doz.

No. 1. 40 x 76 in. \$2 00 \$20 00

No. 2. 76 x 76 in. 3 25 32 50

Sawco Waterproof

Hotbed Mats. The

very finest and best

ever offered. One side

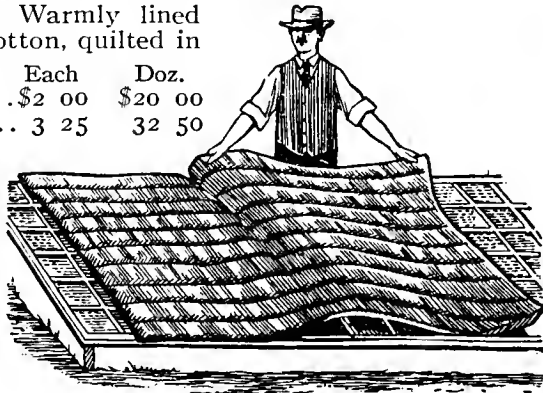
is a waterproof, treated

canvas and the other

side is a fine, bright

burlap. 76 x 76 in.

\$4.50 ea., \$45 per doz.



Glazing Materials

Permanite. A glazing compound composed of asbestos fiber and special, long-life, weather-resisting, non-drying oils, which always keep it in an elastic condition and never allow it to harden. Gal. \$2.50, 5 gals. \$12, 15 gals. \$33.75, 35 gals. \$73.50, 60 gals. \$120.

Permanite Gun. Makes application of Permanite easy. \$7.50 each.

Mastica. A very excellent material for cementing cracks or seams in roof-joints and frames of greenhouses, sash, etc. Easy to apply and not the least bit affected by climatic conditions. Gal. \$2.50, 5 gals. \$12.

Mastica Gun. For applying Mastica. Very practical and easy to operate. \$3 each.

Putty Bulb, Scollay's. A useful tool for applying liquid putty. \$1.50 each.

Glazing Points, Van Reyper's. No rights or lefts. For single- and double-thick glass for greenhouses and skylights. 75 cts. per 1,000; \$3.25 for 5,000. Pliers for same, 75 cts.

Glass Cutter. 25 cts. each.

Putty Knife. 50 cts. each.

Greenhouse White Paint. It withstands heat, cold, or humidity. Does not crack, peel, or blister. One gallon covers 850 to 900 square feet of surface. Gal. \$3.50, 5 gals. \$16.25.

Greenhouse Shading, "Green." This harmonious grass-green colored shading protects plants from the glare and heat of the sun. It gives a thin film which lasts about six months and is then easily removed. Gal. \$3, 5 gals. \$13.75.

Greenhouse Shading, "White." This white powder is to be mixed with water—5 pounds to the gallon—and sprayed or sprinkled on the glass to be shaded. The coating will gradually wear away and can be completely cleared by merely washing with water. 5-lb. pkg. 75 cts., 125-lb. keg, \$12.50.

"Old English" Liquid Putty. Easily applied with either bulb or gun. It is elastic, yet adhesive; weather-proof, yet it does not crack, curl, or pull away from the bar. One gallon will glaze about 350 to 400 square feet of glass. Gal. \$2.50, 5 gals. \$11.25.

Greenhouse Aluminum Paint. Easier to apply, covers more surface, and adheres more firmly, inside or outside, is more weather and moisture resistant, gives greater light-reflection, and lasts longer than any similar type of paint. Gal. \$2.75.

Pot or Garden Labels

Wooden, Painted—

	100	1,000		100	1,000
4-inch.....	\$0 35	\$2 25	8-inch.....	\$1 10	\$7 50
4½-inch.....	40	2 50	10-inch.....	1 40	9 50
5-inch.....	45	2 75	12-inch.....	1 50	12 00
6-inch.....	50	3 25			

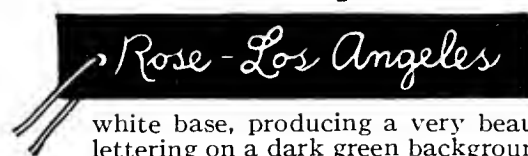
Copper-wired—

3½-inch.....	50	3 25
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Label Pencils. For writing on wooden labels. 10 cts. each, \$1 per doz.

X-L-All Pencil. (Imported.) 25 cts. each, \$2.50 per doz.

Green Weatherproof Tie-On Plant Labels



These green Labels are easily marked with a sharp-pointed steel stylus which cuts through to the

white base, producing a very beautiful effect of white lettering on a dark green background. Prices, including copper wires for attaching and steel stylus for marking



	Doz.	100
No. 31. 3 x ½ in.....	\$0 40	\$2 50
No. 32. 4 x ¾ in.....	60	4 00
No. 33. 5 x 1 in.....	85	5 50

Simplex Weatherproof Tie-On Plant Label. White celluloid with transparent cover of genuine mica. The writing is protected by the transparent cover and will last indefinitely if done with lead pencil.

	Doz.	100
No. 1. 3 x ½ in.....	\$0 45	\$3 00
No. 2. 4 x ¾ in.....	75	5 00
No. 3. 5 x 1 in.....	1 10	7 00

Green Weatherproof Rock-Garden Labels. For use where the wired or stake-type of Labels are not appropriate. These Labels are not conspicuous, but the writing is unusually distinct and permanent. Prices, including stylus for marking

	Doz.	100
No. 51. 4 x ¾ in.....	\$0 45	\$3 00
No. 52. 5 x ¾ in.....	70	4 50
No. 53. 6 x 1 in.....	90	6 00

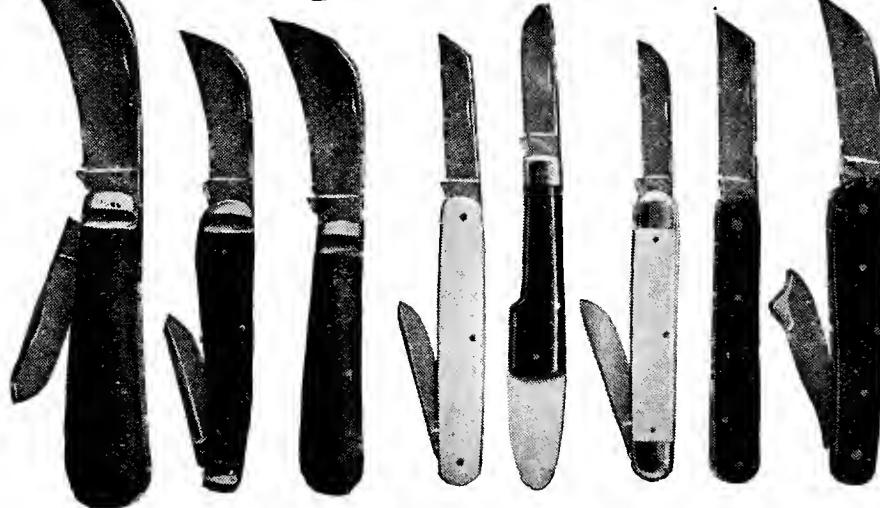
S. & W. Co.'s
Label Holder

S. & W. Co.'s Permanent Label Holder

This is furnished with an index card covered with mica, finished in iron, galvanized and japanned green, making it absolutely rust-proof. Stake 24 inches high.

	Each	Doz.
No. 10, Card, 2¾ x 1½ inches.....	\$0 25	\$2 75
No. 11, Card, 3 x 2 inches.....	30	3 25

Budding and Pruning Knives



5 3 1 A B C Kunde's
Pruning Knives Budding Knives

PRUNING: Each

No. 1. Strong pruning blade; cocoa handle.....	\$1 50
No. 3. Pruning and budding blades; patent stag handle....	2 75
No. 5. Two high-quality pruning blades with cocoa handle..	3 25

BUDDING:

No. A. Two blades with ivory handle.....	3 00
No. B. Budding blade with ivory budder, black rubber handle	2 00
No. C. Two strong budding blades with bone handle.....	2 25

Kunde One-blade Budder. Wooden handle..... 2 00

Kunde Budder and Pruner. 2 blades, polished wooden handle..... 3 00

Painted Plant Stakes

Plant Stakes, Green—		
	Doz.	100
1 ½ feet.....	\$0 35	\$2 00
2 feet.....	60	3 50
2 ½ feet.....	85	5 00
3 feet.....	1 10	6 50
3 ½ feet.....	1 50	8 50
4 feet.....	1 60	10 00
5 feet.....	2 10	13 00
Dahlia Poles, Tapering—		
3 feet.....	1 80	10 50
3 ½ feet.....	2 00	12 00
4 feet.....	2 25	14 00
5 feet.....	2 75	18 00
6 feet.....	3 50	22 00
Special Dahlia Poles. Solid ash; ¾ inch thick; non-tapering; painted green.		
5 feet.....	2 00	14 00
6 feet.....	2 75	18 00

Canes for Supporting Plants

Chinese Tonkin Cane. These are Chinese canes, very strong and heavy. 2, 3 and 4-ft., ¼ to ½-in. diam.; 5 and 6-ft., ¾-in. diameter.			
	Doz.	100	1,000
2 feet.....	\$0 25	\$1 50	\$10 00
3 feet.....	35	2 00	17 00
4 feet.....	50	3 75	33 00
5 feet.....	75	5 50	45 00
6 feet.....	1 00	6 50	55 00
Japanese Bamboo Canes. Dyed green.			
2 feet.....	20	85	6 80
3 feet.....	30	1 20	10 00
4 feet.....	40	1 50	12 00
5 feet.....	45	1 80	14 50
Japanese Cane. Natural. For staking plants and trees.			
6 feet.....	35	2 00	17 50
8 feet.....	80	4 50	40 00
10 feet.....	1 20	7 00	
20 feet.....	5 00	35 00	
BEAN POLES. Excellent for staking pole lima beans. 35 cts. each, \$3.50 per doz.			

Galvanized Wire Stakes

	Doz.	100	1,000
3 feet.....	\$0 40	\$2 50	\$18 75
4 feet.....	50	3 30	24 75
5 feet.....	60	4 00	30 00

Carnation Supports, Etc.

Carnation Supports. Model Extension, 2-ring, \$1.10 per doz., \$7.50 per 100; 3-ring, \$1.35 per doz., \$8.50 per 100.

Baur's Carnation Clip. Plier and 1,000 Clips, \$4.50. Plier alone, \$3.50. Extra Clips, \$1 per 1,000.

Carnation Bands, Rubber. Prevent splitting. 15 cts. per oz.

Wire Peony Support

Has three legs, 24 inches high, and two hoops, 14 inches in diameter. The hoops open up so that they can be put around large plants. Can also be used in supporting bushes, shrubs, tomato plants, etc. 25 cts. each, \$2.75 per doz.

S. & W. Co.'s Spiral Plant Stake

A new and practical device for supporting plants and flowers. Made of galvanized wire with a coating of handsome green enamel, it is inconspicuous and practically invisible. A simple twist of the Stake curls the spiral end about the stalk of the plant and forms a circular lock that is non-binding on the plant. No tying required.

	Doz.	100
2 feet.....	\$0 90	\$6 00
3 feet.....	1 00	7 00
4 feet.....	1 25	9 00

S. & W. Co.'s Sweet Pea and Vine Trellis

Gives the advantage of a rugged metal frame with a rope center for the clinging vine that will not heat nor injure the more tender plants. It is 5 by 5 feet over all and stands about 4 feet above the ground when placed. Several can be used, end to end, for long rows. \$2.25 each.

Twines, Raffia, and Wire

S. & W. Co.'s Smilax Thread. This Thread is very strong, green in color and warranted not to fade. Best Thread on the market. 25 cts. per spool, \$1.75 per 8 spools.

Silkline. Very largely used for tying. Three sizes, F, fine; FF, medium; and FFF, coarse. 40c. per spool, \$3 per box of 8 spools.

Bouquet Twine. White. 3-oz. balls 15 cts. each, 50 cts. per lb., \$2.25 for 5 lbs.

Sea Island Cotton. Green. Ball 25 cts., box of 8 balls \$1.50.

Twine, Soft. For tying vines, etc.; very strong, 2 and 3-ply. Ball 25 cts., 3 balls 60 cts., 12 balls \$2.

Tarred Yarn. Excellent, low-priced material for raspberries, shrubs, etc. Ball (1 lb.) 50 cts., 5 balls \$2.25.

Raffia, Natural. For tying plants. ½ lb. 25 cts., lb. 40 cts., 5 lbs. \$1.50.

Colored. All standard shades. ½ lb. 50 cts., lb. 90 cts.

Wire, Bouquet, Florists' Annealed. Nos. 22 and 24. In coils of 12 lbs., \$3.50 per coil.

Florists' Bright. Cut in lengths. In boxes of 12 lbs. (one stone). 12 in. and 18 in. long. No. 22, \$2.75; No. 24, \$3.50.

Watering Pots

Heavy galvanized iron, reinforced; made well and substantially. Each pot has a long spout, with one fine and one coarse rose.

Round Pattern.

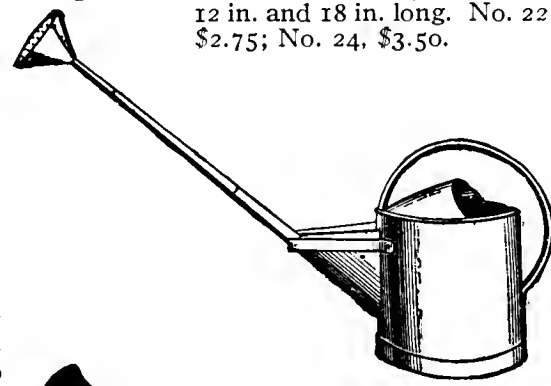
6-quart.....	\$4 75
8-quart.....	5 25
10-quart.....	5 50
12-quart.....	6 00

French Oval Pattern.

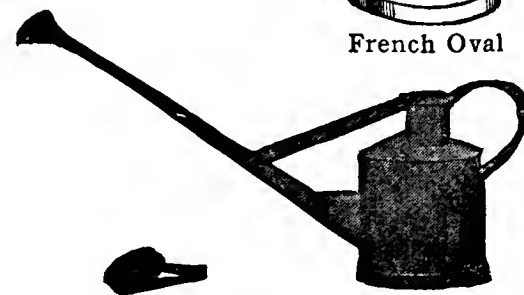
6-quart.....	\$5 50
8-quart.....	5 75
10-quart.....	6 00
12-quart.....	6 75

Haw's Pattern.

2-quart.....	\$5 00
3-quart.....	6 00
4-quart.....	6 50
6-quart.....	7 00
8-quart.....	8 00



French Oval



Haw's

Rubber Plant Sprays

	Each
Sawco. Straight neck, capacity 8 fluid ozs.....	\$0 80
Crook neck, capacity 8 fluid ozs.....	1 00
Scollay's. Capacity 12 fluid ozs.....	1 35



Adjusto Plant Supports

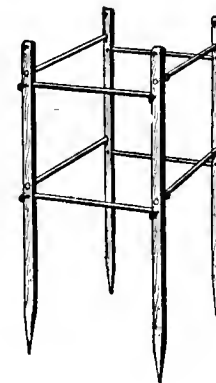
Sturdy, hardwood stakes, ¾-inch square, 3, 4, 5, or 6 feet long with a strong wire support instantly adjustable to any height. Holds the plant firmly together, yet loose enough to admit air and sunlight in order to promote healthy growth.

	Each	Doz.
3 feet.....	\$0 20	\$2 10
4 feet.....	25	2 40
5 feet.....	30	2 70
6 feet.....	35	3 00
1 ½ feet x ¾-inch square.....	10	90
2 feet x ¾-inch square.....	15	1 10

Perfection Tomato Support

Is 36 inches high, 12 inches wide, made of wood, and will not burn the vines in hot weather or cut them off when wet and swayed by the wind. Can be unfolded without damage and stored away for following season's use. 40 cts. each, \$4 per doz.

Tomato Supports, Wire. 32 inches high, 14 inches in diameter, made of heavy steel wire. 50 cts. each, \$4.75 per doz., \$32 per 100.



PRICES SUBJECT TO MARKET CHANGES

The Stumpp & Walter Co. Ball-Bearing Lawn Mower

This is universally a family Mower. It is made exclusively for us, and is a high-grade machine, adopting only the best features in its construction. Material entering into this Mower is of the highest quality procurable.

The simple and positive adjustments permit the cutting of grass from $\frac{1}{2}$ to 2 inches high. Its design and construction makes it impossible for the machine to bob up and down, which generally occurs when the grass is allowed to grow a little longer than usual. Mower is driven by three gears on each side of the machine by two 10-inch traction wheels. The revolving shaft of the reel or cutting sections runs in micro-chrome steel balls, which very rarely, if ever, have to be replaced.

This Lawn Mower is made to give good and long service, and with ordinary good care will last for years. We take the liberty to recommend the S. & W. Co. Ball-Bearing Lawn Mower to be the best all-round Lawn Mower of its type manufactured.



Size	Gross weight	Net weight	Price	Grass Catcher
14-inch cut....	65 lbs....	40 lbs....	\$14 50	\$3 00
16-inch cut....	67 lbs....	42 lbs....	16 00	3 25
18-inch cut....	71 lbs....	45 lbs....	17 50	3 50
20-inch cut....	76 lbs....	48 lbs....	19 00	4 00

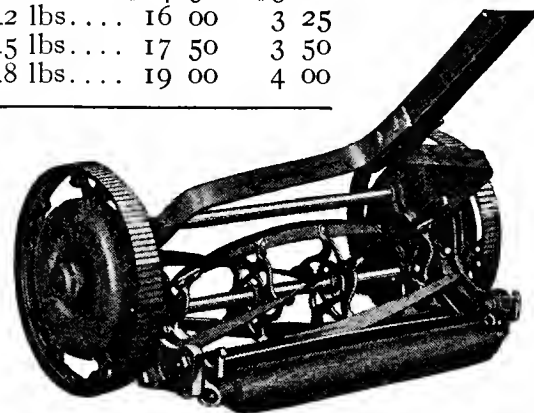
Super Great American Lawn Mower

BALL-BEARING WHEELS AND CYLINDER

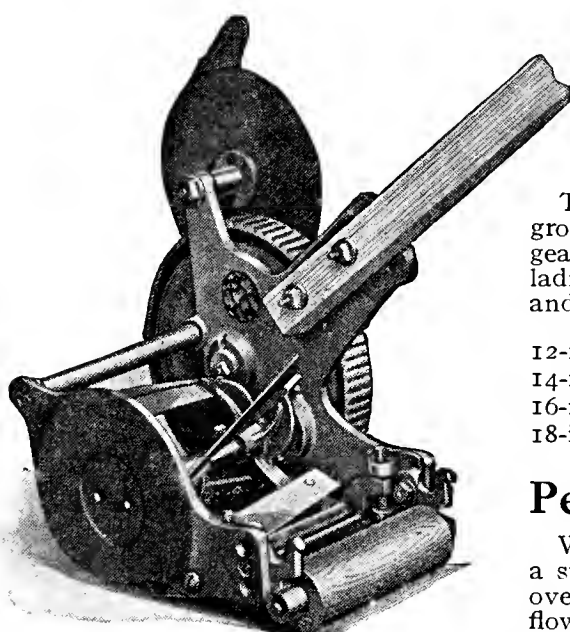
Of modern construction, with Ball-Bearings in the Drive Wheels, Steel Axles, and other improved fittings—making it EASY to push, with long service insured.

The cutting cylinder of five crucible tool-steel, hardened and tempered blades revolves in special self-aligning ball-bearings, with spherical cup, insuring even wear on the knives and less need for adjustment. Height of cut can be regulated from $\frac{1}{2}$ to $1\frac{1}{2}$ inches; will cut grass 6 inches high. Wheels are 10 inches high.

The self-sharpening feature will save the annual trip to the repair shop. The Super Great American Mower is recommended for gardener's use as well as for the household lawn.



Super Great American



Lawn Trimmer and Edger

Size	Gross weight	Net weight	Price	Grass Catcher
15-inch cut.....	65 lbs.	42 lbs.	\$18 50	\$3 25
17-inch cut.....	67 lbs.	44 lbs.	21 50	3 50
19-inch cut.....	71 lbs.	48 lbs.	24 00	3 75

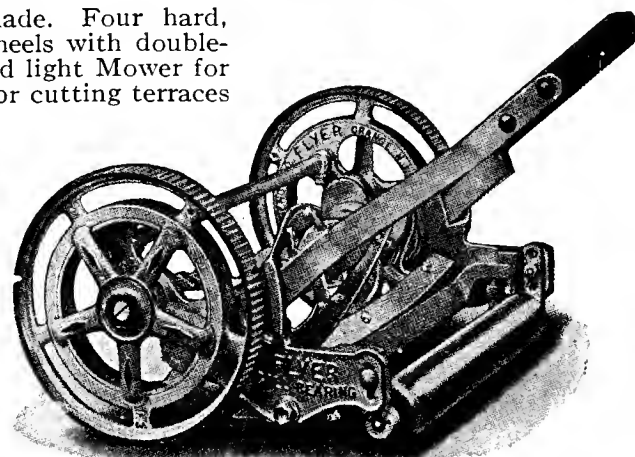
Townsend Flyer Mower

The best, low-priced, Ball-bearing Mower made. Four hard, ground, crucible steel knives. Has two 9-inch wheels with double-gear drive on both sides. A very easy-running and light Mower for ladies and children to operate. Equally efficient for cutting terraces and cemetery plots.

Size	Price	Grass Catcher
12-inch cut.....	\$ 9 50	\$2 75
14-inch cut.....	10 50	3 00
16-inch cut.....	11 50	3 25
18-inch cut.....	12 50	3 50

Pennsylvania Lawn Trimmer

With this combination machine, equipped with a steel disc and a small plow, you can trim the overhanging grass along the edges of paths and flower-beds and do any similar work that has heretofore required a half-moon hoe, a grass-hook, or hand shears. Price, \$9.

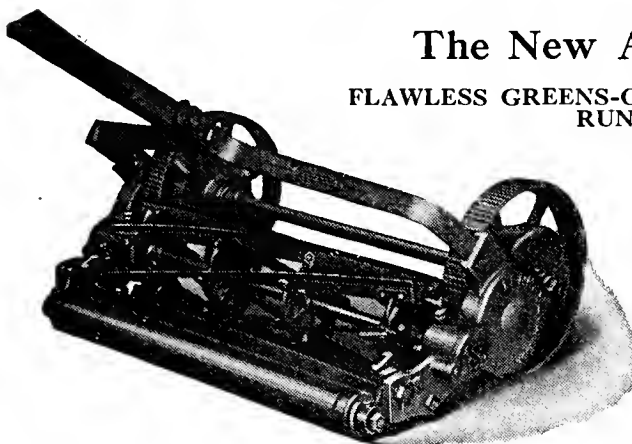


Townsend Flyer

Mowers for Golf Courses and Tennis Courts

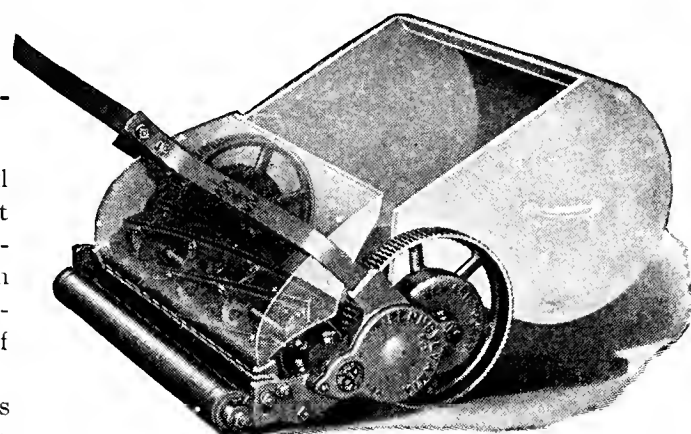
The New Aristocrat Golf Mower

FLAWLESS GREENS-CUTTING INSURED BY THIS EASIER-RUNNING NEW MOWER



The **New Aristocrat** is an improved model of the world-famous Aristocrat or Pennsylvania Golf, the "old reliable" high-wheel greens Mower which has been used for years by greens-keepers in every country where golf is played.

Although previous models of this popular greens cutter have always

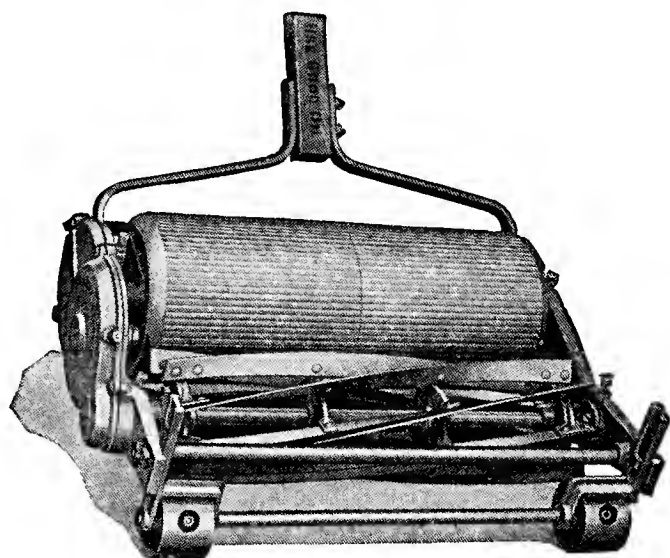


been noted for their easy-pushing, close-cutting qualities, the refinements embodied in the **New Aristocrat** make it still lighter-running, while its higher gearing absolutely insures a close-cut and ridgeless wake. It has proved particularly efficient in close-cropping the modern creeping bent greens.

The **New Aristocrat** has a 7-blade, high-speed cylinder, 5 1/2 inches in diameter, and a train of three cut gears on each side, with six pawls to prevent lost motion. The cylinder is equipped with the new Braun Self-aligning Ball-Bearings, with positive lock pad and screw, easily adjusted for wear. The wheels and intermediate gears have roller bearings. Alemite lubrication throughout.

Made in one size only (19-inch). Net weight, only 58 lbs.; shipping weight, 85 lbs. Price, without Grass-Box, \$36; **Grass-Box, \$6 extra.**

Pennsylvania High-Speed Super-Mower



The Pennsylvania High-Speed Super-Mower is a high-g geared, 8-blade machine of the roller-drive type, the rollers being made of aluminum. Every moving part runs either on roller- or ball-bearings. The train of cut gears is enclosed in a grease-tight case, protected from rain, dust, and grass-clippings, so that they revolve in a bath of oil. Alemite lubrication throughout. A light wheel carriage facilitates transportation of the Mower from green to green.

The Pennsylvania High-Speed Super-Mower leaves a wonderful "finish" to the turf, without the slightest trace of ridging.

Obtainable in only 18-inch size. \$48 each; Grass-Box, \$6; and light Wheel Carriage, \$5 additional. Complete outfit \$59, f.o.b. New York.

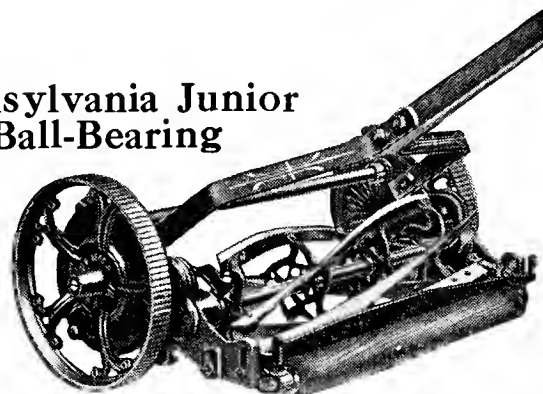
Pennsylvania Undercut Ball-Bearing Trimmer

The unique construction of this Trimmer permits cutting, not only close up to a wall, fence, tree, etc., but, it *will get the grass under fences and other places* hitherto out of reach of anything but hand shears. \$10.50 each.

Leather Horse Boots (QUALITY KIND)

Easily attached to the horse's feet; prevent marring the lawns. Frequently after rains, or in the spring, the lawns are soft and easily cut up. Use a good leather boot and save the lawn. Quality Kind are well made. Double-thick soles and uppers reinforced; heavy parts put together with copper rivets. Per set of four: Small size, \$20; medium size, \$21; large size, \$22; extra-large size, \$23.

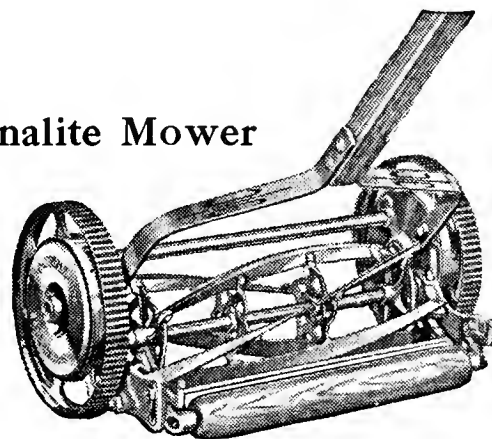
Pennsylvania Junior Ball-Bearing



The perfection of Lawn Mowers. The Pennsylvania Junior has all the good features incorporated in a perfect Lawn Mower. The five revolving blades are driven by a triple set of gears and a 10-inch traction wheel from each side. The revolving blades and the bottom knife are the best crucible tool-steel, oil-tempered and water-hardened. The Pennsylvania Junior is particularly adapted for the cutting of tees and approaches.

Size	Gross weight	Net weight	Price	Grass catcher
15-inch cut.....	71 lbs.	48 lbs.	\$23 50	\$3 25
17-inch cut.....	74 lbs.	51 lbs.	26 50	3 50
19-inch cut.....	77 lbs.	53 lbs.	30 00	3 75
21-inch cut.....	80 lbs.	55 lbs.	33 00	4 00

Pennalite Mower



A new departure in Lawn Mowers. Instead of the regulation gray iron it is made of tough aluminum alloy castings and weighs, complete with handle, 29 pounds, or 14 pounds less than the ordinary Mower.

The **Pennalite** is light running, is strongly recommended for terrace work, and in heavy, tough grass holds to the ground equally as well as a heavier machine.

It has 10-inch wheels, 5 crucible tool steel blades, 6-inch cylinder, automatic spring adjustment on cones, spring steel lower blades screwed to bottom of the casting.

One size only, 17-inch, \$15.50.

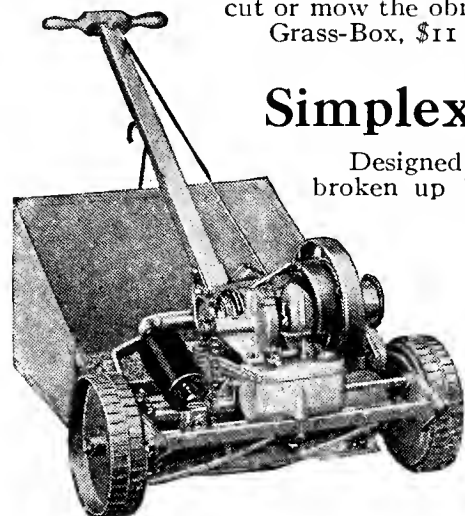
"4-Acre" Heavy-Duty Power Lawn Mower

The "4-Acre" Heavy-Duty Power Lawn Mower is a direct gear-driven power mower—no chains or belts. Will cut a 24-inch swath through thickest grass. Has sufficient power to mow grass on the steepest terrace.

The specially built motor of the 4-Acre Mower has proved its fitness for power-mower work over a period of many years. The 4-Acre is gear-driven—all gears enclosed and running in oil. Separate clutches, operated from the steering handle, control the cutting unit and traction wheels. This enables the operator to disengage the cutting unit when traveling over stony roadways, up and down curbs, etc., without injury to the cutting unit. \$295. Grass-Box, \$11 extra.

4-Acre Heavy-Duty Power Mower with Sickle-Bar Attachment

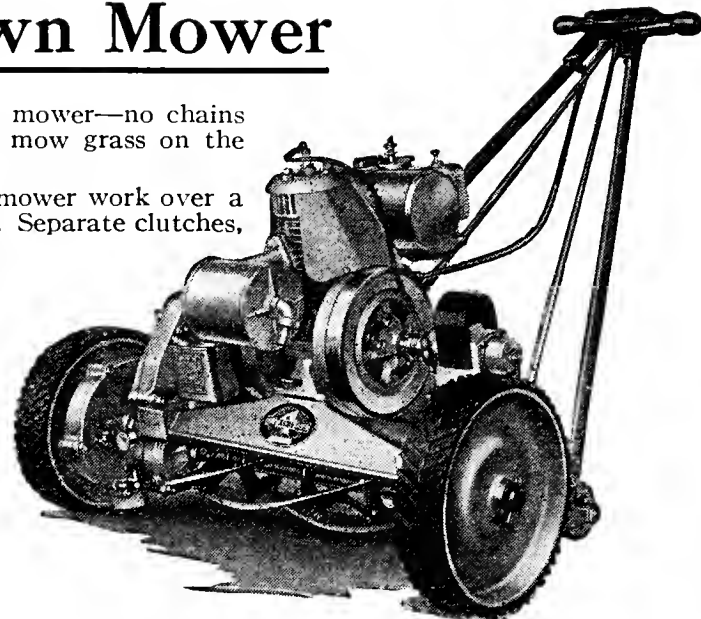
This attachment gets all weeds, dandelions, plantain, buckhorn, and other well-known destroyers of lawn beauty and enables the revolving cutter of the mower to cut or mow the obnoxious weeds level with the grass. \$380. Grass-Box, \$11 extra.



Simplex Power Lawn Mower

Simplex Power Lawn Mower

Designed especially for moderate-sized lawns and lawns broken up by numerous obstructions. Cuts 2 acres a day on less than 1 gallon of gasoline at a speed of $2\frac{1}{2}$ miles per hour. Has a 2-cycle motor. The cutter has 6 blades, which may be adjusted to cut the grass from $\frac{1}{2}$ to $2\frac{1}{2}$ inches. This is a durable and efficient machine, fully guaranteed. 20-inch cut, \$155. Grass Box, \$5 extra.



4-Acre Heavy-Duty Power Lawn Mower

Estate Roller-Driven Power Mower

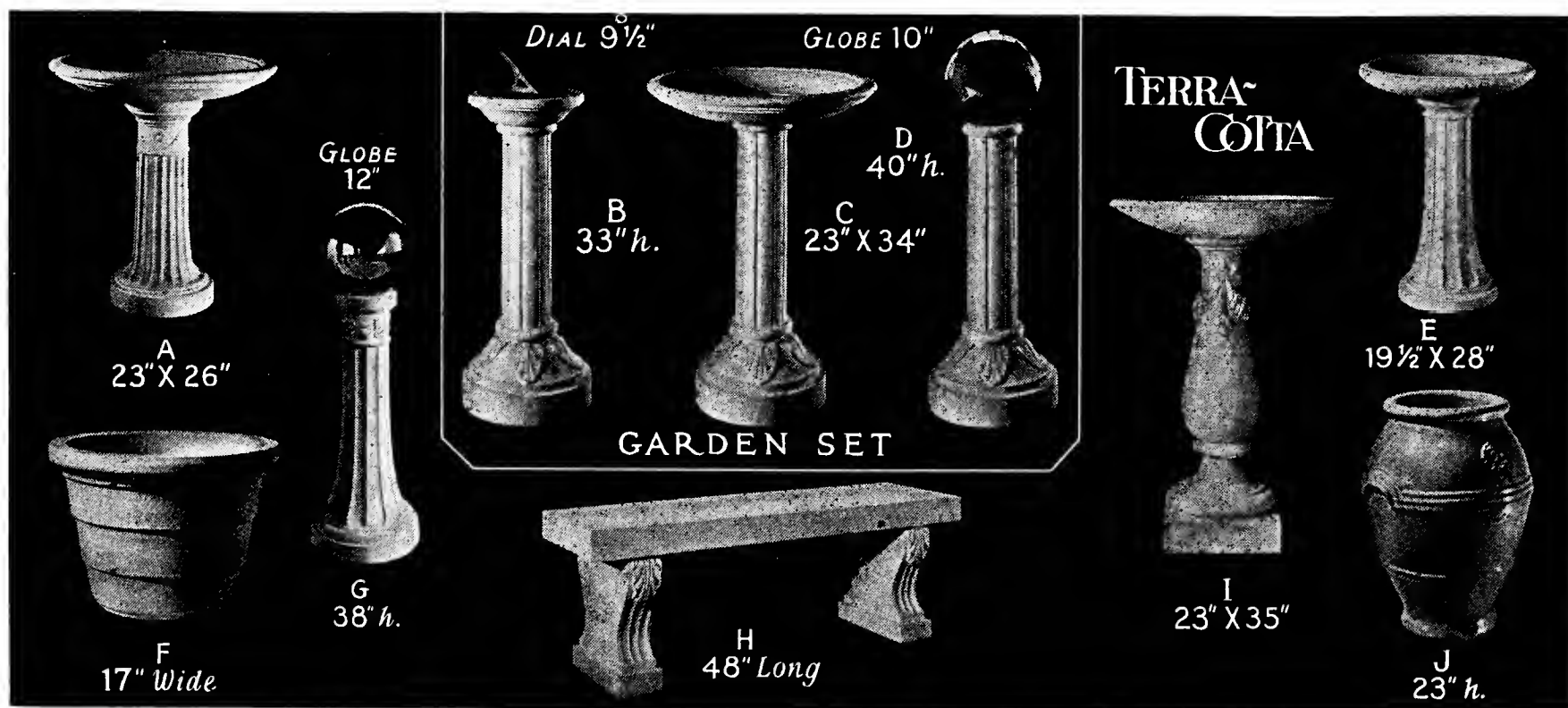
It is equipped with the same motor and controls as the 4-Acre Heavy Duty, but differs in that it is roller driven. Designed for large, fine lawns that are mowed close and often. Very easy to handle, and can trim close to flower-beds and obstructions. Built in two sizes, 24-in. cut and 30-in. cut.

24-inch cut, \$310. Grass-Box, \$13.50 extra.

30-inch cut, \$350. Grass-Box, \$17.50 extra.

Riding-Cart for use with either 4-Acre or Estate Mower, \$45.

Terra-Cotta Garden Pottery



As lasting as the Pottery of ancient peoples. Place on your lawn, terrace, or porch; in the conservatory, sunroom, or hall. The light stone-gray color of Bird-Baths, Pedestals, and Garden Benches assures restful harmony with their surroundings. Jardinieres available also in green and red; Jars in green glazed ware.

Made of high-fired terra cotta, which is more weather-resisting and more enduring than cement.

Special Matched Set { **Sun-Dial B.** Pedestal only \$13.50, Dial \$7.50, Complete...\$21 00
Bird-Bath C...... 19 50
Gazing-Globe D. Pedestal \$11.50, Globe \$9.50, Complete 21 00 } **Complete Three-Piece Set for \$57.50**

Bird-Bath A\$13 75
Bird-Bath E 11 75
Bird-Bath I 24 50

Gazing-Globe G
 Pedestal only\$14 50
 Globe only 10 00
 Complete as illustrated 24 50

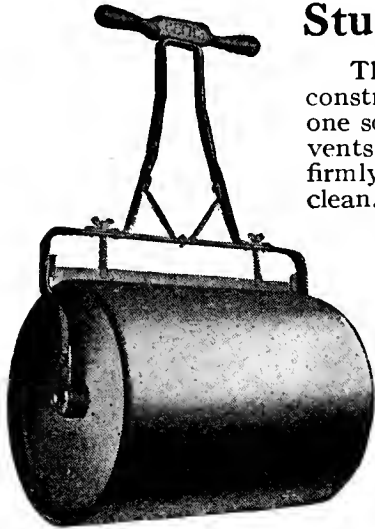
Jardiniere F: Made in
 Gray\$5 50
 Red 5 50
 Blue-Green Glaze 9 00

Jar J. Made in green
 glazed ware\$20 50
Garden Bench H. Lime-
 stone top, gray terra-
 cotta supports 28 50

We prepay transportation on Garden Pottery within 100 miles of New York City

Stumpp & Walter Co.'s Water-Ballast Lawn Roller

This is a most satisfactory Roller, being light-running and easy to pull. It is constructed of 3 heavy steel plates, pressed together and electric-welded, forming one solid steel drum with no leaky joints. The drum has rounded edges, which prevents cutting of the sod. Heads are held through the center by a full-length axle firmly fastened by double steel lock nuts and washers. A scraper keeps the Roller clean. Can be filled with water or sand, and by using more or less, a weight is obtained suitable for the conditions—light for moist lawns, medium for dry lawns, and heavy for paths.



Fill it with Water or Sand

No.	Diam.	Length	Sec- tions	Weight empty	Filled with Water	Price
605	14 in.	24 in.	1	70 lbs.	175 lbs. (No Scraper)...	\$13 50
606	18 in.	24 in.	1	85 lbs.	265 lbs. (No Scraper)...	16 00
607	14 in.	15 in.	1	50 lbs.	115 lbs.....	12 75
603	24 in.	24 in.	1	110 lbs.	420 lbs.....	22 00
604	24 in.	32 in.	1	130 lbs.	565 lbs.....	25 00

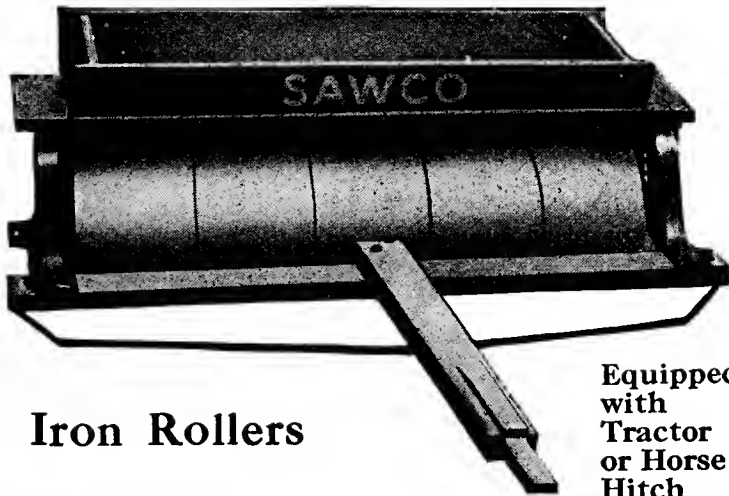
Cast-Iron
Hand
Lawn Roller



Cast-Iron Hand Lawn Rollers

The face of each Roller is made smooth, with outer edges rounded to avoid cutting the sod. Will not injure the grass when turning.

No.	Sections	Diam.	Length	Weight	Price	No.	Sections	Diam.	Length	Weight	Price
1	2	15 in.	15 in.	150 lbs.....	\$13 50	8	3	20 in.	30 in.	350 lbs.....	\$26 50
2	3	15 in.	22 in.	200 lbs.....	17 50	10	2	24 in.	24 in.	450 lbs.....	31 00
7	2	20 in.	24 in.	300 lbs.....	22 00	13	2	28 in.	24 in.	500 lbs.....	42 50



Iron Rollers

Equipped
with
Tractor
or Horse
Hitch

This Roller is manufactured to do heavy work. Is used with excellent success on golf courses and private estates, on roads and lawns. Has strong, plain bearings, pulls directly from the axle, and is equipped with a substantial weight box for additional weight. Each section is turned smooth on the surface with outer edges beveled.

Pole and whiffle-trees or shafts will be furnished instead of tractor hitch without extra charge.

No.	Diameter	Length	Sections	Weight	Price
61	20 in.	60 in.	5	1,150 lbs.....	\$ 85 00
63	24 in.	60 in.	5	1,450 lbs.....	107 00
73	24 in.	72 in.	6	1,700 lbs.....	125 00
76	28 in.	72 in.	6	1,950 lbs.....	145 00

Spike-Disc Hand Cultivator

The Spike-Disc is the ideal tool for making, improving and saving the lawn, greens and fairway, baseball diamonds, play grounds and parks.

Its high carbon alloy steel saw teeth cultivate and aerate in one operation—thus eliminating the hard-baked surface and forming a mulch so necessary for retaining moisture.

Consists of 19 discs, each 9½ in. diameter. Rolling width, 18 in.; net weight 90 lbs. \$27.50.



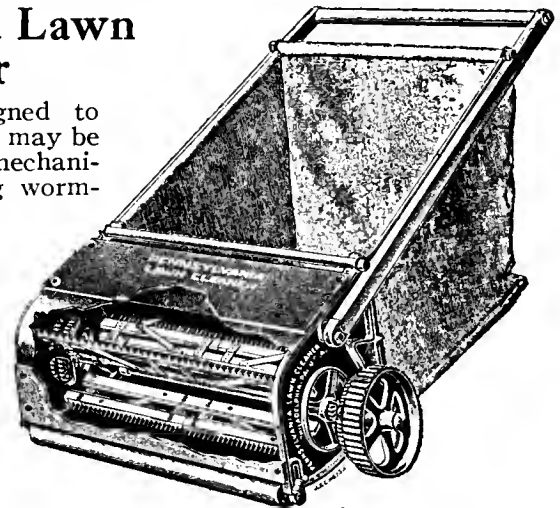
S. & W. Co.'s
Putting-
Green
Perforating
Roller

A Spike Tooth Roller for aerating the sod on golf courses, putting-greens, parks, and large lawns.

Consists of three sections, each 12 inches in length by 10 inches in diameter, made of seasoned oak staves compressed in cast iron heads. Closely covered with steel spikes, which are easily replaced with a socket wrench. Steel top and frame so constructed that sand bags can be used for additional weight. Carrying wheels for turning or moving. Rolls 3 ft.; weight 190 lbs. \$50.

Pennsylvania Lawn Cleaner

This machine is designed to remove dead leaves, but it may be converted quickly into a mechanical brush for distributing worm-casts, etc., when steel rakes, with which the machine is normally fitted, are removed and replaced with brushes. The brushes are made of high-grade fiber set in a hardwood head, and they give long wear. The brushes are easily removed for cleaning or for interchanging with the raking cylinder. 24-in. Cleaner, fitted with steel rakes, \$30. Brushes, 24 in., \$7 per set of 3.



Sod Perforating Attachment

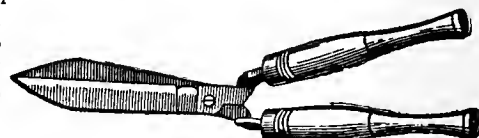
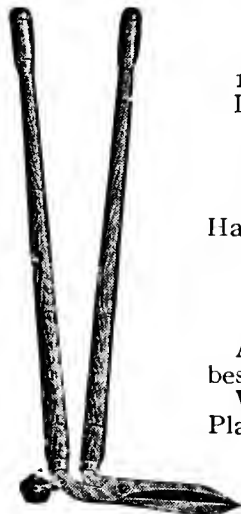
Made especially for use with our No. 603, No. 605, and No. 606 Water-Ballast Lawn Rollers. Aids in keeping the lawn in perfect condition. Spiking permits the air to get at the roots, resulting in a stronger, healthier, and better grass. The Lawn Roller acts as weight for the attachment. Very easy to attach or detach, simply by tightening or loosening two bolts and two thumb-screws. Sod-perforating Attachment only, \$17.50.

HEDGE SHEARS

Sheffield Hedge Shears, Finest English Steel

Solid steel blade, crucible tool-steel, tempered to hold an edge. Give good service. Shears with notch are the best for cutting heavy stems of hedge plants.

	Plain Each	With Notch Each
8-in. blade, weighs 4 lbs.....	\$2 75	\$3 00
9-in. blade, weighs 4 lbs.....	3 00	3 25
10-in. blade, weighs 4 lbs.....	3 25	3 50
Ladies'	2 25	



Hedge Shears

"Professional" Hedge Shears

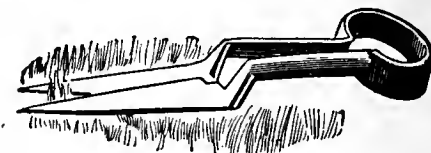
Blades made of crucible steel, nicked; one serrated edge, the other knife edge. Handles riveted—cannot come off.

8-in. blade \$2.25; 9-in. blade, \$2.75; 10-in. blade, \$3.

S. & W. Co.'s Grass Shears

A very simple but practical locking device holds the Shears together. Made of the best crucible tool-steel; polish finish. One size only, 6½-in. blade, \$2.25.

Western Grass Shears. Made of good-quality tool-steel. A one-piece Shears. Plain finish, 6-in. blade, \$1.50.



Grass Shears

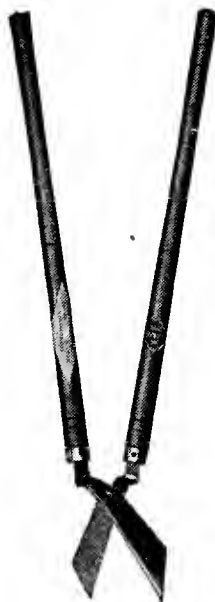
Grass Edging or Border Shears

Designed to trim the overhanging grass on borders around flower-beds and walks. 9-in. blades of high-grade tool-steel; polished handles and blades. Without wheel, \$5; with wheel, \$5.50.

Border Shears

Lawn Shears

Designed to cut grass under hedges, fences, grape arbors, and flower-beds or shrubs. 9-in. blades of high-grade tool-steel, polished handles, and blades. Without wheel, \$5.50; with wheel, \$6. *Notice:* When shipping the above Shears, unless stated on orders, we send Shears with wheel.



Lawn Shears

Pruning Shears

Kunde. One of the best Shears obtainable. It is very durable and efficient. Solid steel, \$5.

Wiss. Crucible tool-steel; blades are detachable; tempered to hold an edge; will not break. Made in two sizes. 9-in. \$3.50; 10-in. \$4.

S. & W. Co.'s Solid Steel. Crucible tool-steel. Blade and handle are one piece of polished steel; a ratchet nut keeps the Shears properly tightened; will not break; excellent finish. Made in three sizes. 8-in. \$2.75; 9-in. \$3; 10-in. \$3.25.

French. Made of good-quality tool-steel; flat roller spring; works easily and cuts well; detachable blades; plain finish. Made in two sizes. 8-in. \$2.25; 9-in. \$2.75.

Sawco. Made of high-quality steel. A very good Shears for grape-vines and shrubbery. \$1.50.

Ladies' Nickel-plated. Light, practical, handy to use on roses and shrubbery. 6½-in. \$2.50.



Kunde



Wiss



S. & W. Co.



French



Sawco



Ladies'

GRAPE-THINNING SCISSORS. Nickel-plated. \$2.

FLOWER-GATHERING SHEARS. Nickel-plated. Made to hold within its grasp the stem of the cut flower. \$2.50.

ROL CUT PRUNING SHEAR. Genuine imported. The only light-weight Pruning Shear with genuine draw cut—cuts cleaner and quicker. \$2.

Little Wonder Hedge Trimmer

A well-designed machine which entirely revolutionizes hedge trimming. It actually cuts a hedge as fast as you walk, and in an hour will trim the top and two sides of a hedge 300 feet long; this is from five to ten times as fast as hand-work.

The cutting blades are of tough steel, holding a sharp edge for a long while and trimming every variety of hedge grown. Use it for trimming, and not for "cutting back" a hedge, and it will last for years. 30-inch one-man Trimmer, \$25; 40-inch one and two-man Trimmer, \$27.50; 60-inch two-man Trimmer, \$35.

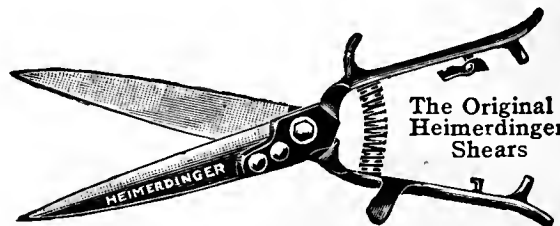


Electric Little Wonder Hedge Cutter



Simply plug into a lamp-socket, snap the switch, and guide it along the hedge. The 27-inch cutting-bar produces a smooth, velvet-like finish. Trims 300 to 500 feet of hedge, top and both sides, in one hour. 27-inch machine, with 15 feet of weather-proof wire, \$42.50.

The Scissors-Like Grass Shears



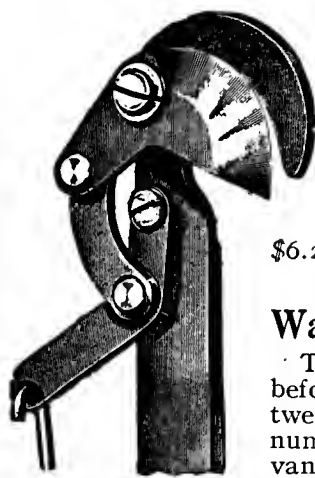
The Original Heimerdinger Shears

The Original Heimerdinger has the finest quality Shear steel blades, hardened and tempered, and finely polished.

Very practical for trimming the edges and borders of lawns, flower-beds, etc. Total length of Shears 12½ inches, blades 6 inches. Price, \$1.25

Pruning Tools and Orchard Supplies

PRICES SUBJECT TO
MARKET CHANGES



Compound-Lever
Pruner

6-ft.....\$2 00
8-ft.....2 25
10-ft.....2 50

Compound-Lever Pruner

Working parts, being made from forgings, are very strong, without being unnecessarily heavy, and the strength, durability, easy cutting qualities of this tool appeal to all who have occasion to use a strong and powerful Pruner. 10 ft., \$5; 12 ft., \$5.50; 14 ft., \$6.25; 16 ft., \$6.75.

Waters Tree Pruner

This Pruner has been before the public for over twenty-five years. It has numerous well-known advantages, and if a tool for ordinary pruning is required, the Waters will give entire satisfaction.



WATERS
IMPROVED
TREE PRUNER.

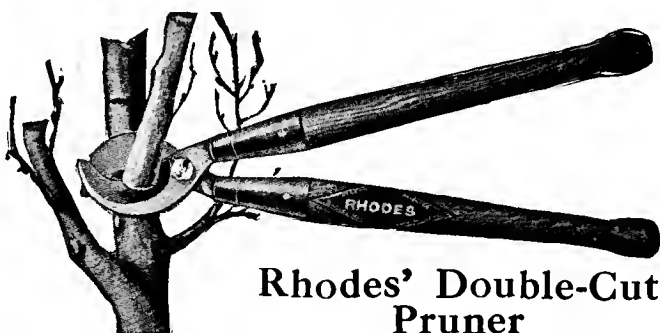
12-ft.....\$2 75
Extra Knives, each
30 cts.



Telegraph
Pole
Pruner

Telegraph Pole Pruner

This Pruner is similar in appearance to but of heavier construction than the Waters. This makes it very strong and durable. As illustrated, no handle, \$1.75. Extra knives, 30 cts. each.



Rhodes' Double-Cut
Pruner

A good and powerful Pruner. Cuts from both sides of the limb, and does not bruise the bark. Long ferrules; handles do not pull out; blades are of the best forged steel. 30-inch, \$3.75; 36-inch, \$4.

Grafting Chisel

Makes clean splits and does not tear the bark. \$1.25.

Grafting Wax. 1/4 lb. 20 cts., lb. 65 cts.



PRUNING SAWS



Paragon Pruning Saw

with the draw cutting and thrust cutting edges. Will cut large limbs better than the lighter Saws. 18-inch, \$2.25; 20-inch, \$2.50.

No. 4 Pruning Saw. Without this Saw no pruning outfit is complete. The tapering blade permits of its use in close places. Used for other purposes. A very useful Saw. 20-in., \$3.25.



No. 4 Pruning Saw



Double-Edge Pruning Saw

Double-Edge Pruning Saw. Has fine teeth on one edge and "Lightning" teeth on the other. 16-in., \$1.50; 18-in., \$1.75; 20-in., \$2.

Paragon Pruning Saw. A very good double-edge Pruning Saw.

PRUNING SAWS, continued

One-Man Crosscut Saw. Can be used also as a Two-Man Saw. Has "Lightning" teeth; cuts easily and rapidly.

3 1/2-ft.....\$5 00 | 4 1/2-ft.....\$6 50
4-ft.....5 75

Orchard Pruning Hook and Saw. Better adapted for pruning or sawing smaller branches than the Little Giant. Without pole, \$2.75.

Little Giant Pruner and Saw Combined. The knife operates with a cord; a spring throws the knife back. Saw can be removed when desired; attaches to pole of any length. Without pole, \$3.25.

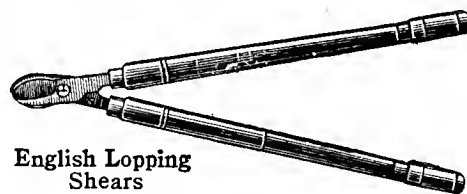


Little Giant Pruner and Saw



Single-Edge Pruning Saw

Single-Edge Pruning Saw. Best spring-steel. 18-in., \$1.75; 20-in., \$2.

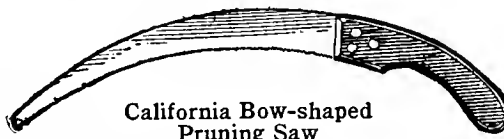


English Lopping
Shears

English Lopping Shears. The Shears are well known, and do good service.

No. 2. 24-in...\$4 50
No. 3. 28-in... 5 50
No. 4. 32-in... 6 25

Rhodes' Pole Pruning Saw. Attached to a light, 10-foot pole. Is adjustable to any angle. The Saw is a Paragon blade, made of the best spring-steel; has a draw and thrust cutting edge; saves a lot of climbing and risk of falling. \$4.



California Bow-shaped
Pruning Saw

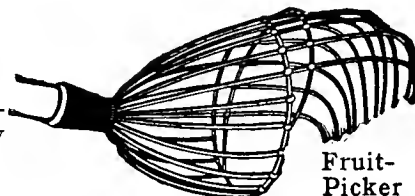
limbs are close together. Can be used in the forks without bruising the bark of other limbs. 12-in., \$1.15; 14-in., \$1.25.

California Bow-shaped Pruning Saw. Excellent to use wherever two

Rhodes' Pole
Pruning
Saw

Perfect Fruit-Picker

Made of steel wire, heavily galvanized; can be attached to any pole. 60 cts. 12-ft. Pole, 50 cts.



Fruit-Picker

Bamboo Extension Pole

Made especially so that fruit-pickers, asbestos torches, and other devices may be attached to the brass tubing at the top. In three sections of 4 ft. \$1.25.

Asbestos Torch

Attach the Torch to the end of a pole; saturate with kerosene oil, light and hold under the caterpillars' nests, and pass quickly along the branches and around the trunk of the tree. The heat instantly destroys the insects and will in no way injure the trees. Without pole, 60 cts.



Berry or Thinning Hook

For thinning out berry bushes and shrubbery. It cuts off and hooks out in thick places where it is hard to operate any other tool. Fine for sprout and suckers. \$1.

All-Steel Tree Pruners

Strictly high-class Pruner in every detail. Light, powerful, and practical; cuts 1 1/2-inch limbs with ease.

No. A. 20 in. long.....\$2 75
No. B. 25 in. long..... 3 00
No. C. 30 in. long..... 3 50



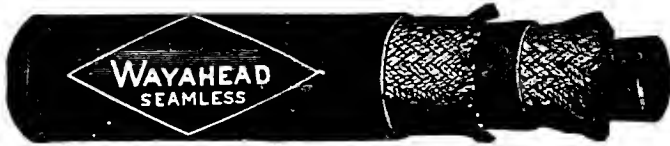
Asbestos Torch

Rubber Hose, Menders, Nozzles, and Sprinklers

PRICES SUBJECT TO MARKET CHANGES

RUBBER HOSE

Fully Guaranteed



S. & W. Co's "Special Brand" Wayahead Hose. Surpasses all the cheaper grades of Hose. A two-braid Hose with a smooth cover, and constructed with two strands to the outside braid and one strand in the inside braid. Wayahead's tube cover adhesion makes a balanced Hose. $\frac{3}{4}$ -inch bore, 25 ft., \$3.75; 50 ft., \$6.50; 100 ft., \$12.



Electric, Non-Kinkable. Not to be confused with any other type of corrugated Hose for **Electric** is the most sturdy and rugged piece of Hose on the market today.

Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft. \$5.25; 50 ft. \$9.50; 100 ft. \$18. Standard lengths, $\frac{1}{2}$ -inch bore, 25 ft. \$4.75; 50 ft. \$8.75; 100 ft. \$16.50.

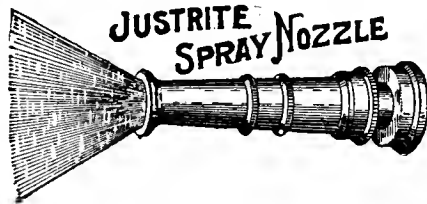
Golf-Course. This Hose is of double-braid construction, the braid being incorporated in pure gum rubber and the outside cover is smooth, therefore non-abrasive. Will stand up and give satisfaction under conditions where ordinary garden Hose has failed. Standard lengths, $\frac{3}{4}$ -inch bore, 50 ft., \$10; 100 ft., \$18.75.

HOSE NOZZLES

Stott's. A Nozzle that has become a favorite among rose-growers, etc., for exterminating red spider. Splendid Nozzle for reaching under the foliage; gives a very fine, misty spray. Single, \$1.75; double, \$3.

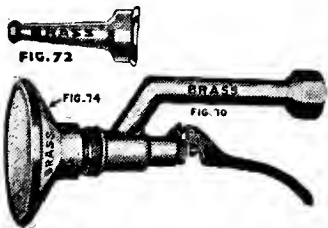
Justrite Spray. A very popular adjustable Nozzle. It gives a copious spray or a well-defined, full stream. 50c.

Bordeaux Spray Nozzle. A good Nozzle for whitewash and all heavy spray materials. \$1.



Aquomatic Nozzle. Fits any $\frac{3}{4}$ -inch garden hose connection. Gives a solid stream or spray. Has a positive automatic shut-off. Practical and durable in every way. \$2.50 each.

Water-Gun. The most convenient article of its kind ever offered, and as a nozzle is much more adaptable than the old style. Spray or full stream, as desired. No leakage or drips. \$1.50 ea.



HOSE SUPPLIES

Siamese Hose Attachment. Permits use of two leads of hose at one time. $\frac{3}{4}$ -in., \$1.25 each.

Hose Clamps or Bands. $\frac{1}{2}$ - and $\frac{3}{4}$ -in. sizes, 10 cts. each, \$1 per doz.

Regular Hose Couplings. Easily applied. $\frac{1}{2}$ -in., 15 cts. each, \$1.50 per doz.; $\frac{3}{4}$ -in., 20 cts. each, \$2 per doz.

Perfect Clincher Hose Coupler. Self-fastening Coupling that does not require extra bands, bolts, or wire. 25 cts. each, \$2.50 per doz.

Rain King Hose Coupler. Don't bother screwing hose connections together. Just snap them on instantly with this new invention. $\frac{3}{4}$ -in., 60 cts. each.

Perfect Clincher Hose Mender. $\frac{1}{2}$ - and $\frac{3}{4}$ -in. sizes, 15 cts. each, \$1.50 per doz.

Cooper's Brass Hose Mender. Easily applied—no fasteners required. $\frac{1}{2}$ -in., 10 cts. each, \$1 per doz.; $\frac{3}{4}$ -in., 15 cts. each, \$1.50 per doz.

Hydrant Swivel. Prevents hose from kinking and turns in any direction. 90 cts. each.

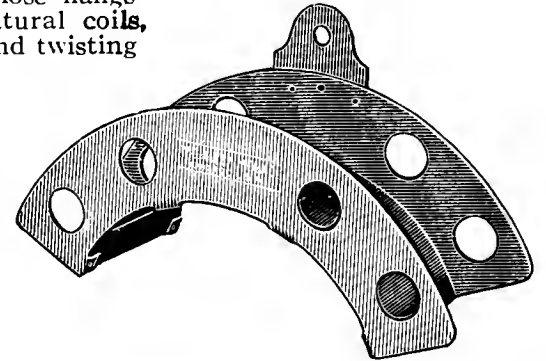
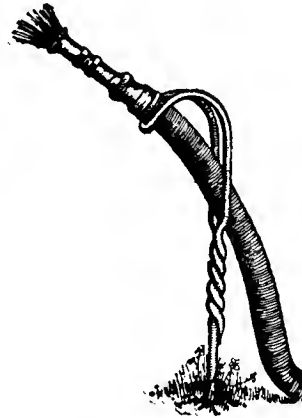
Hose Washers. For $\frac{3}{4}$ -in. hose. 10 cts. per doz.

Sawco Portable Spray-heads

For connecting with hose in series, to create a movable and flexible lawn-sprinkling system. Produces a perfect, mist-like spray, covering wide areas. 75 cts. each, \$7.50 per doz.

Goldsmith Hose-Rack

The Goldsmith Hose-Rack is a hose-preserver, since the hose hangs on the rack in large, natural coils, thus preventing kinking and twisting \$1 each.



Hose-Holder

Can be adjusted to hold either $\frac{1}{2}$ - or $\frac{3}{4}$ -inch hose. 35 cts. each.

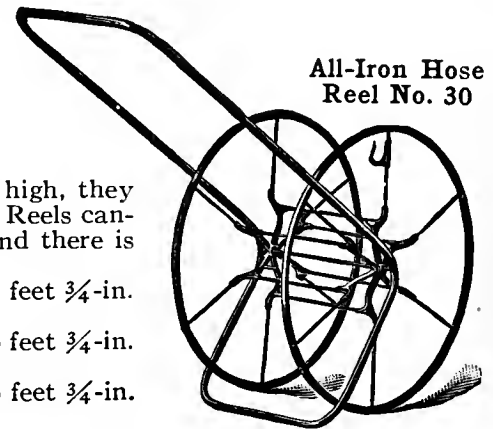
All-Iron Hose Reel

The All-Iron Hose Reels are constructed entirely of iron, and are indestructible. They are light in weight, frictionless, and the wheels being high, they are easily manipulated. These Reels cannot tip over when unreeling and there is no weight on the handle.

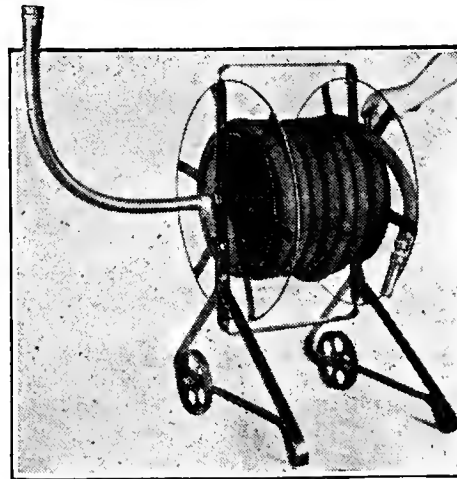
No. 10, 21-in. wheel, holds 100 feet $\frac{3}{4}$ -in. hose, \$5 each.

No. 20, 24-in. wheel, holds 150 feet $\frac{3}{4}$ -in. hose, \$5.50 each.

No. 30, 30-in. wheel, holds 500 feet $\frac{3}{4}$ -in. hose, \$9.25 each.



All-Iron Hose Reel No. 30



Sawco Hose Reel

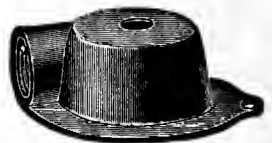
The great advantage of the Sawco Hose Reel is that it is placed alongside of the faucet and the reel is attached to it by a short length of hose (about 3 to 4 ft.). All that is necessary then is to uncoil only the length of hose you require to use. Wind it back on the reel with the crank when you have finished using it.

Capacity of reel—100 ft. of $\frac{3}{4}$ -in. hose. Reel without hose, \$7.

The C. B. G. Sprinkler

Cheap But Good

Nothing to get out of order. Will last a lifetime. It is easily drawn about the lawn without shutting off the water. 50 cts. each.



FLARING ROSE HOSE SPRINKLER

Ejects a fan-like gentle spray. Especially adapted for sprinkling flowers and delicate foliage. Unexcelled for watering seedlings and newly planted grass-plots. 60 cts. each.

LAWN SPRINKLERS

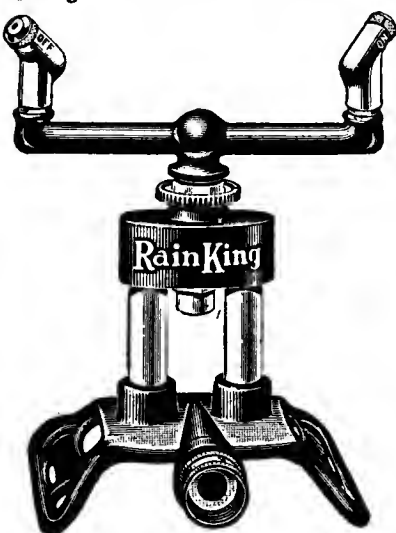
PRICES SUBJECT TO
MARKET CHANGES

Double Rotary Sprinkler

Efficient Long-Wearing Reliable

This Sprinkler has always had many friends on account of the efficient manner in which it sprays, covering an area from 15 to 80 feet in diameter, according to water-pressure—more than 5,000 square feet.

The model which we offer includes many improvements. The gears, of hardened steel and bronze, are enclosed and run in oil. It is so simple in construction that it is rarely necessary to make adjustments, even after long wear. The nozzle is adjustable for fine or coarse spray and permits covering small or large areas without reducing the volume. The skid base permits moving while in operation. Cannot tip over. \$12.50 each.

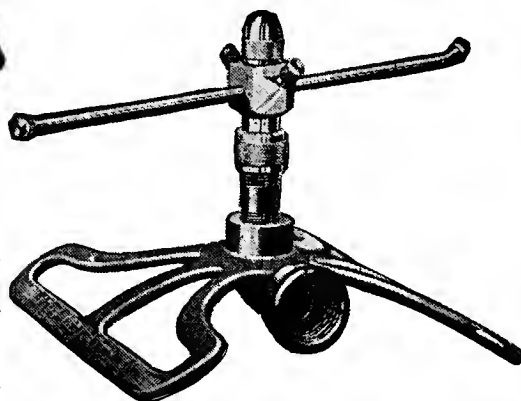


The Rain King

Quickly adjustable to revolving or stationary sprays. Waters large lawns, strips, or small corners. Sprinkles two directions at once or concentrates wherever water is wanted. \$3.25 each.

Majestic Rain King

Stands 15 inches high, has double brass water-columns, is built a trifle heavier than the Rain King, and throws the water farther. Because of extra height, throws spray well out over tops of near-by plants. \$5 each.



Rainstorm Sprinkler

Has two short center nozzles and two longer arms, giving it an even distribution of water clear from the base of the sprinkler to the extreme outer radius. Covers circle from 15 to 48 feet in diameter. Adjustable for light or heavy flow. \$2.50 each.

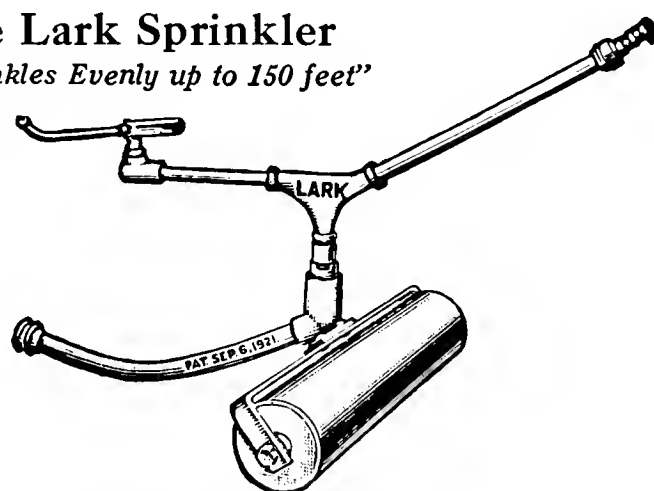
White Showers Rainbow Sprinkler

The Rainbow Sprinkler is so designed that it sprinkles in a square instead of a circle—a great advantage, as it does away entirely with the necessity of finishing the watering with a hose. The Rainbow has 17 nozzles, mounted on an oscillator. Its sweep is so wide that it waters an area as large as 60 square feet, but it can quickly be adjusted for smaller areas and also for watering narrow strips and borders. Mounted on wheels—easy to move. A high-grade, durably built Sprinkler that will give years of service with no other attention than oiling once a year. \$40 each.

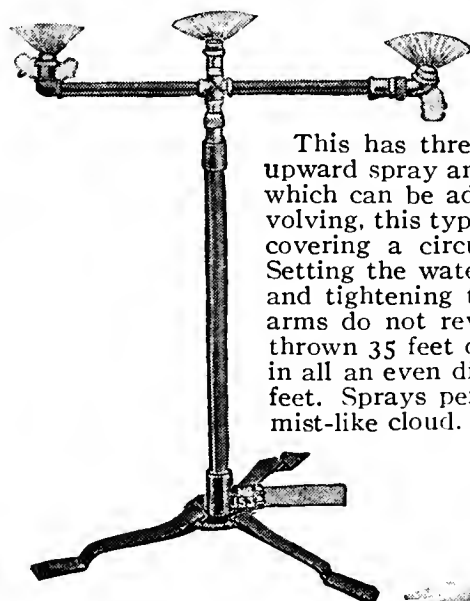


The Lark Sprinkler

"It Sprinkles Evenly up to 150 feet"



All gears and complicated wearing parts have been eliminated, thereby insuring long life, without constant repair. Can be adjusted. Will cover well a diameter of from 60 feet to 150 feet, depending upon the pressure at the Sprinkler. Operates on water-pressures of from 15 to 75 pounds. Gives an even, rain-like distribution of water from the center to the extreme outer circle without puddling. \$12.50 each.



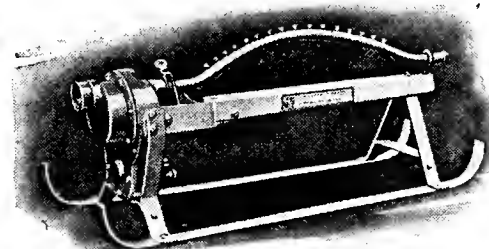
S. & W. Co.'s Triple Spray Sprinkler

This has three waterheads, one throwing an upward spray and two (one on each end of arm) which can be adjusted to any angle. When revolving, this type of Sprinkler will throw a spray covering a circular area 60 feet in diameter. Setting the waterheads in an opposite direction and tightening the set screw collar so that the arms do not revolve, will cause a spray to be thrown 35 feet on each side of the stand, making in all an even distribution of water, covering 70 feet. Sprays perfectly, throwing the water in a mist-like cloud. \$10 each.

Waterfan

The new Automatic Oscillating Irrigation Sprinkler.

Will sprinkle a rectangle 40 feet by 45 feet with a mist-like spray. The plane of the spray oscillates back and forth. \$15 each.



Whirling Showers Sprinkler

So designed that various sprays are obtainable. By adjusting the nozzle for quantity of spray and position, anything from an extremely fine mist to a drenching rain is obtainable. \$2 each.

S. & W. Co.'s Three-Way Sprinkler

Equipped with three tested spray-heads, thus giving three kinds of sprays; as (1) a whirling spray that operates on low as well as high pressure, covering a circular area up to 48 feet. (2) An intensified spray, to cover a circle from a few feet up to 28 feet, as desired. (3) A half-spray for oblong or narrow spaces in the garden or lawn or for curb strips. Changing from one spray to another is instantaneous. A mere turn with the fingers puts into position the proper head for the kind of spray wanted, and the other two heads are automatically shut off. \$4 each.

Sprayers for Applying Insecticides and Fungicides

PRICES SUBJECT TO MARKET CHANGES

S. & W. Co.'s New Super Auto-Spray

4-GALLON CAPACITY

An excellent Compressed-air Sprayer especially adapted for spraying around the home, garden, in the stable, poultry-house, kennel, etc.

Now furnished with corrugated tank of either *heavy, solid, sheet copper* or *heavy, copper-bearing, galvanized steel*. Tanks are lined with *special non-corrosive coating* to guarantee long life.

The new Auto-Spray is made of extra-heavy metal to hold up under pressure. Tank being double riveted and soldered guarantees strength and long life. The seamless brass pump is of small bore, so that the pressure can be pumped with little exertion. A few strokes of the plunger will compress sufficient air to cover quite an area.

No. 9C. Copper Tank (coated) fitted with automatic Shut-Off, 2-ft. seamless Brass Extension and Non-Clog Screen Nozzle, \$10.

No. 9A. Galvanized Steel Tank (coated) fitted with automatic Shut-Off, 2-ft. seamless Brass Extension, and Non-Clog Screen Nozzle, \$6.75.

Non-Clog Nozzle with small and large Spray Discs. 80 cts.
2-foot Brass Extension Pipe. 60 cts.

20-inch Hose complete with Auto-Pop Shut-Off and Nozzle. \$2.25.

No. 50 Auto-Spray

CAPACITY, 2½ GALLONS

This sturdy little Sprayer is similar to the above in construction and manipulation, but the tank is of smaller capacity and does not have the non-corrosive lining feature. It is particularly recommended for spraying on a small scale, and for use where weight is a factor, as when the women-folk or youngsters help out with the spraying.

No. 50B. Brass Tank fitted with automatic Shut-Off, 18-inch seamless Brass Extension, and Non-Clog Screen Nozzle, \$8.50.

No. 50D. Galvanized Tank fitted with automatic Shut-Off, 18-inch seamless Brass Extension, and Non-Clog Screen Nozzle, \$5.75.

S. & W. Co.'s Bucket Spray Pump

An economical hand Sprayer for applying white-wash, cold-water paints and disinfectants. The pump is made of heavy seamless brass tubing with a large brass air-chamber; it has brass ball valves, is double-acting, and will produce a continuous spray or stream, simply by regulating the nozzle. A Bordeaux nozzle with 3 feet of ½-inch spray hose is furnished. Price \$6.

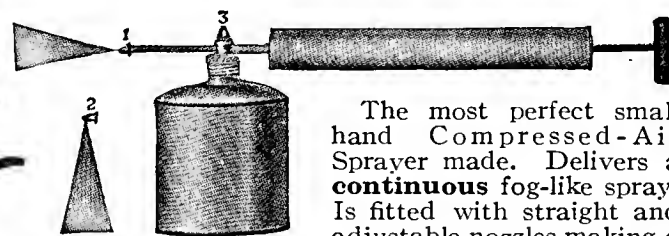
Extra ½-inch hose of good quality at 30 cts. per foot.
Extra Couplings, 60 cts. per set.

Bamboo Spray Pole

FOR TALL-TREE SPRAYING

Bamboo Spray Poles are brass lined to resist the corroding effect caused by strong solutions. Each Spray Pole is equipped with a drip-shield at the top and brass shut-off at the bottom. 8 ft., \$4.

S. & W. Co.'s Compressed-Air Sprayer



The most perfect small hand Compressed-Air Sprayer made. Delivers a **continuous fog-like spray**. Is fitted with straight and adjustable nozzles making a perfect **under-leaf sprayer**. In fact, spray can be delivered at **any angle** or position desired. Holds 1 quart. Weight 2 lbs. Made in solid sheet brass, highly polished, \$1.75. Galvanized, \$1.25; tin, 85 cts.

Bronx Bottle Sprayer

Nozzle throws powerful, broad mist. Can be sprayed in any direction. Sprayer is made to fit any ordinary bottle. Spray only, \$1.35; with special Screw-Cap Bottle, \$1.50.

S. & W. Co.'s Brass Syringes

These Syringes are applicable for all horticultural purposes in the conservatory and garden. They are fitted with roses and jets for ejecting water in one stream or dispersing it in a fine or coarse spray, as required. Specially adapted for applying fluid insecticides.

No. A. Barrel 12 in. long, diam. 1 in. One spray rose and one jet, \$3.50. Weight 3 lbs.

No. H. Sheet-brass Syringe, with fixed spray rose. Barrel 16 in. long, diam. 1½ in., \$4. Weight 4 lbs.

No. 10. Barrel 18 in. long, diam. 1½ in. One coarse and one fine spray rose and one stream jet, with patent valves and elbow joint for sprinkling under the foliage, \$9. Weight 5 lbs.

Double-Acting Pump Sprayer and Knapsack Tank

THE SAME SPRAY WITH HALF THE LABOR

Pump. This Pump is the ideal all-purpose sprayer. Its field is practically unlimited, as it may be used for spraying trees, vines, garden truck, potatoes, and any field crops. Made entirely of brass, doing away with all danger of corrosion. This Pump is double-acting, which gives a continuous spray, a distinct advantage over single-acting Pumps in that the Pump works on both the up and the down stroke. The Pump cylinder is small in diameter, and in a test a pressure of 180 pounds to the square inch was raised with very little labor.

Knapsack is made of heavy galvanized iron and fitted with strong web shoulder straps. Capacity about 5 gallons.

PRICES

Knapsack only	\$3 50
Pump only	5 00
Complete Outfit	8 50

Sprayers for Applying Insecticides and Fungicides

PRICES SUBJECT TO MARKET CHANGES

S. & W. Co.'s Paragon Sprayer No. 3 CAPACITY, 12 GALLONS

The demand for this portable, *non-cloggable* Sprayer is steadily increasing, for its efficiency as a general-purpose Sprayer is making it very popular with thousands of gardeners, florists, and poultrymen.

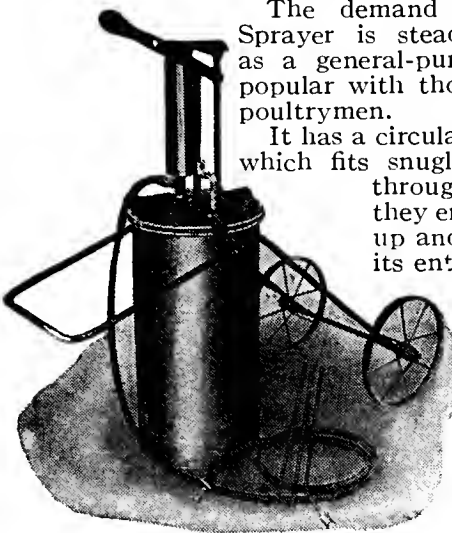
It has a circular, automatic, self-cleaning strainer which fits snugly over end of suction-pipe, and through which all liquids must pass before they enter the pump. The agitator passes up and down over this strainer, cleaning its entire surface with each stroke of the pump, detaching all sediment which the suction draws to its surface, thus keeping the strainer open. The openings in the strainer are slightly smaller than in the discharge nozzle. Thus, any particle passing through the strainer is also small enough to more readily pass through the discharge nozzle. This feature, found

only in our Sprayer, permits of the use of a finer nozzle and enables the operator to do better, neater, and quicker work with less waste of material.

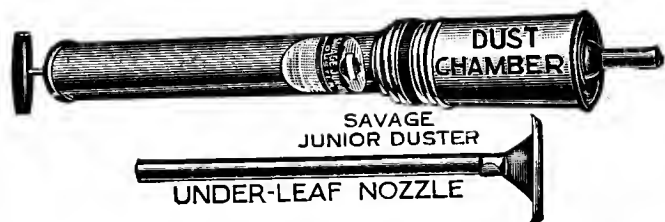
Recommended for spraying whitewash, cold-water paint, insecticides, fungicides, and all solutions in the garden, greenhouse, or poultry plant. Will also spray trees 25 feet high.

Sprayer mounted on truck with two 12-inch wheels. Price, \$22.50; without truck, \$19.

Equipment: 10-ft. Special Spray Hose, 7 1/2-ft. Extension Pipe, 1 Mist Nozzle, 1 Steel Cap, 1 Straight Spray. A Single Wheel Truck, with 16-inch wheel, will be furnished with the No. 3 Sprayer, when desired. Price, \$22.50.



S. & W. Co.'s Savage Jr. Dust Gun

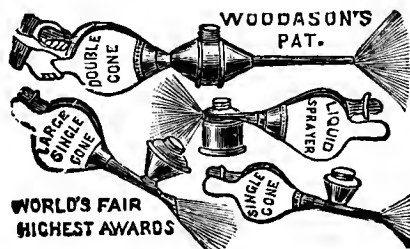


A simple device with an improved nozzle giving a broader distribution of dry powder insecticides and fungicides without waste and with the least possible effort. It blows the powder onto the plants. Insecticides which may be applied economically with this Dust Gun include hortex, tobacco dust, bug death, hellebore, Paris green, arsenate of lead, etc.; fungicides which may be used with it are Semesan, Bordeaux powder, grape dust, powdered sulphur, etc. Price, \$1.25.

Bellows, Woodason's

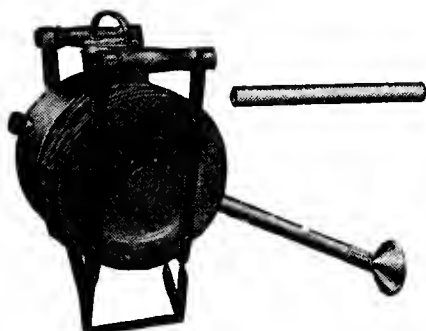
Powder, small size.....\$3 50
Powder, large size..... 5 00
Liquid, small size..... 4 25
Liquid, large size..... 5 00

Double-Cone Powder Bellows. For dusting plant with dry powders for insects and fungus. Price, \$7.50.



Superior Hand Duster

Easy to work. Can be regulated to give a light or heavy application of the various dusts in a steadily flowing stream. Capacity, from 2 to 4 pounds, depending upon density of material. Excellent for dusting hill crops or under side of foliage. 30-inch extension with Spreader. Price, \$7.50.



POMONA SPRAY PUMP

It is of large capacity and powerful, with long adjustable leverage, so that it is easily operated by one person, but is especially built for spraying from two leads of hose. The unusually large steel air-chamber gives sufficient pressure for a continuous spray. All working parts are of brass, including plunger and valves, which are easily accessible; it has a paddle agitator.

Pomona Outfit A. Sprayer with agitator and one lead of 15 feet of 3/8-inch spray hose, with "Mistry Jr." spray nozzle. Price, \$33; with truck and barrel, \$54.

Pomona Outfit B. Same as the above, except with two leads of hose and two nozzles. (See cut.) Price, \$40; with truck and barrel, \$60.



FRUITALL SPRAY PUMP

A low-priced Sprayer combining the necessary durability, efficiency, and strength.

Outfit C. Sprayer with agitator and one lead of 15 feet 1/2-inch discharge hose, with "Mistry Jr." spray nozzle. Price, without barrel, \$21.50; with truck and barrel, \$40.

Outfit D. Sprayer with agitator and two leads, 15 feet each, 1/2-inch discharge hose, with "Mistry Jr." spray nozzles. Price, without barrel, \$28.50; with truck and barrel, \$48.50.

RUBBER SPRAY HOSE

3/8-in. bore, to stand 250 to 300 pounds maximum pressure, 25 cts. per ft. 1/2-in. bore, to stand 250 to 300 pounds maximum pressure, 30 cts. per ft. Couplings and Clamps, 60 cts. per set, extra.

S. & W. CO.'S WATER BARREL CART AND ACCESSORIES

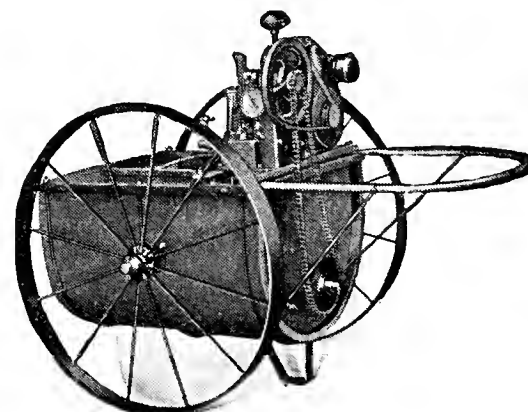
The Cart is not permanently attached to the Barrel. In using, the Barrel is raised from the ground, carried to the place desired, and *instantly detached, all without handling.* The weight being balanced over the axle, no lifting or down pressure is needed in transportation. Special attachments can be obtained to convert the Cart into a Water-Barrel Combination, Leaf-Rack, or Handy Cart-Box.

Truck only, fitted with 3-in. steel wheels.....	\$15 00
Truck and 50-gal. Barrel.....	22 50
Extra Trunnions for 50-gal. Barrel, per pair.....	1 00
Handy Cart-Box fitted with spring catch to permit dumping. 38 in. long x 24 in. wide x 10 in. deep.....	8 00
Leaf-Rack. Will be found extremely useful for the cartage of leaves and dead grass from the lawn, etc. 42 in. long x 28 in. wide x 21 in. deep.....	15 00

ESTATE SPRAYER

The **Estate Sprayer** is ideal for the spraying of flowers, shrubbery, and small trees on private estates, greenhouses, and nurseries.

Consists of Estate Pump, 50-gal. tank, 1 H. P. Briggs & Stratton engine, mounted on 42 in. x 3 in. wheels, with 25 ft. of 3/8-in. hose and Orchard Gun. \$200.



REMEDIES FOR INSECTS AND FUNGUS

NOTE: On orders for Insecticides and Fungicides over \$2 in value, we prepay to points within 100 miles of New York City. If value of order is \$2 or less, or if shipment is made beyond 100 miles of New York City, customer pays transportation charges on arrival. We send by express items hereunder marked not mailable



A service that will rid the home and premises of the ant nuisance. The Acme Ant-Kill Cottage Set contains 5 patented Service Cups, 5 Anchoring Nails, and a large bottle of Syrup, with complete directions. Cottage Set complete, 75 cts.; extra Service Cups, 10 cts. each; extra Syrup, 3-oz. bottle 35 cts., ½ pt. 60 cts., pt. 90 cts. (Not mailable.)

Ant Powder, Dolco. Will not harm human beings or animals. Scientifically perfect, it acts slowly; many ants partake of it before they learn of its nature.

Very effective for ridding lawns and shrubbery of ants, also pantry and refrigerator shelves, floors and other places. 3-oz. can 30 cts., lb. \$1. (Not mailable.)

Aphine. Effective against all soft-bodied and plant-sucking insects, such as green, black, and white fly, red spider, thrips, mealy bug, brown and white scale. Qt. \$1, gal. \$3. (Not mailable.)

Aphis Spray, Acme. An improved spray combining a soft fish-oil soap with nicotine. Suitable for the control of all kinds of aphis, thrip, leaf-hopper, and many other soft-bodied insects. Mixes easily with water. 3-oz. tube 35 cts., 12-oz. can 95 cts. (Not mailable.)

Arsenate of Lead, Powder. Better than Paris green, does not burn the foliage, goes twice as far, and is easier to handle. Stir in 2 level teaspoonfuls to a quart of water; 1 pound to 50 gallons of water. ½ lb. 25 cts., lb. 50 cts., 5 lbs. \$2, 10 lbs. \$3.50, 25 lbs. \$6, 100 lbs. \$18. (Not mailable.)

Black Leaf 40. A concentrated solution of nicotine sulphate and an excellent spray for aphis and sucking insects of all kinds. Dilute 1 teaspoonful to 1 gallon soapy water; 1 ounce to 6 gallons water. Oz. 35 cts., 5 ozs. \$1, lb. \$2.10, 2 lbs. \$3.10, 5 lbs. \$5.85, 10 lbs. \$10.15, 50 lbs. \$43. (Not mailable.)

Bordeaux Mixture, Dry Powder. The recognized fungicide for the control of most fungous diseases of fruits and ground crops. Stir in 4 teaspoonfuls to a quart of water; 4 to 4½ pounds to 50 gallons water. ½ lb. 25 cts., lb. 40 cts., 5 lbs. \$1.50, 10 lbs. \$2.75, 25 lbs. \$5, 50 lbs. \$9.50, 100 lbs. \$16. (Not mailable.)

Carbon Bisulphide (Ant Destroyer). Poisonous and explosive. Keep away from all flames and your nose. For ants in walks, pour a little Bisulphide on each nest; in lawns and gardens, insert the Stumpp & Walter Funnel and Skewer at intervals of 10 inches and pour a tablespoonful in each hole. Can 75 cts. Funnel and Skewer for using Carbon Bisulphide, \$2.50. (Not mailable.)

Copper Sulphate (Bluestone). An ingredient in home-made Bordeaux Mixture. Also used alone for spraying. Lb. 25 cts., 5 lbs. 85 cts., 10 lbs. \$1.50, 25 lbs. \$3.50, 100 lbs. \$12. (Not mailable.)

Copper Solution, Ammoniated. A fungicide similar to Bordeaux Mixture; the essential ingredient, carbonate of copper, being dissolved in ammonia in this, while in Bordeaux it is counteracted by lime. For late sprayings, when fruits are nearing maturity, or plants in bloom, copper solutions are used. Very effective for black-spot on roses. Qt. \$1.50, gal. \$4.50. (Not mailable.)

Crow Repellent. Seed-preserver for corn. Insures your seeds. It prevents crows and other birds taking the seed and also protects against ground-rot and smut. Non-poisonous and does not retard germination. Small can, enough for 1 bus., 60 cts.; large can, enough for 2 bus., \$1.

Cyanogas, (A) Dust. For outside use in killing rats, moles, woodchucks, gophers, and ground squirrels. Also for white grubs and crayfish in lawns. ½ lb. 45 cts., lb. 75 cts., 5 lbs. \$3, 25 lbs. \$10, 100 lbs. \$30. Gun for applying same, \$1.25. (Not mailable.)

Cyanogas, (G) Fumigant. For greenhouse, mushroom, and soil-fumigation. Scatter over the greenhouse walks and close the house for the night. Generates deadly hydrocyanic acid gas which is very effective in controlling aphis, thrips, white fly, and soft scale. 5 lbs. \$3, 25 lbs. \$10, 100 lbs. \$30. (Not mailable.)

Dawg-Gone. Protect your evergreens. Keep dogs away. Remove cap and hang tube of Dawg-Gone (opening down) in the lower branches of trees at the points of approach. The odor slowly emanating from the open tube will keep dogs away. A tube lasts from six months to a year, winter or summer. Tube 35 cts., 3 for \$1.

Dust Respirator. Light and comfortable. Easily and quickly adjustable. Air-tight face-contact with little headband pressure; long fibre cotton filter which excludes dust and spray but does not labor breathing or interfere with speech. \$2.50.

Fish-Oil Soap. For mild forms of scale. An excellent summer spray, when something stronger cannot be used, where the San José scale exists. It is good for washing off lemon trees, oleanders and almost anything that would be infested with a soft-shelled or in fact almost any kind of insect. Lb. 30 cts., 5 lbs. \$1.25, 25 lbs. \$4, 100 lbs. \$13.

Fungtrogen. A liquid spray for the control of mildew and black-spot. Highly concentrated fungicide invisible on the foliage or blooms. ½ pt. 75 cts., qt. \$2, gal. \$6. (Not mailable.)

Fungine. An infallible remedy for mildew, rust, wilt, bench-rot, and other blights affecting flowers, fruits, and vegetables. Does not stain foliage. Qt. \$1, gal. \$3. (Not mailable.)

Grape and Rose Dust. For mold, mildew, or rust-mites, either in the greenhouse or open. The application is made by dusting. 5 lbs. \$1, 25 lbs. \$5, 100 lbs. \$20. (Not mailable.)

Hellebore, Powdered. Good for exterminating currant worms. ½ lb. 30 cts., lb. 50 cts., 5 lbs. \$2. (Not mailable.)

Hortex. A superior sulphur-arsenate-nicotine dust testing 2 per cent pure nicotine. This all-in-one mixture is used for the control of many fungous diseases, chewing insects, and sucking insects. Used as a dust it cannot be surpassed for general garden use. Lb. can 50 cts., 5-lb. can \$2, 10-lb. can \$3.50. (Not mailable.)

Imp Soap Spray. Destructive to insects. Does not spot fruit or foliage or deface paint work. Contains no mineral poison. Very effective against rose bug, white, black and green fly, red spider, thrips, and aphis. Gal. \$3, 5 gals. \$12. (Not mailable.)

Japanese Beetle Traps. Sure catch; tremendously effective. Substantially made. Finished with green enamel. Complete with can of bait \$2; 1-lb. can extra bait, 50 cts. (Mason jars for this Trap can be obtained from local hardware store. Risk is too great to ship.)

Lime-Sulphur, Concentrated. For destroying San José scale. One gallon makes ten gallons of spray; dilute with cold water. Qt. 50 cts., 1-gal. can \$1.25, 5-gal. can \$4, half-barrel (about 25 gals.) \$10.50, barrel (50 gals.) \$15. (Not mailable.)

Lime-Sulphur, Dry. A very effective dormant spray for fruit and shade trees. Lb. 40 cts., 5 lbs. \$1.75, 10 lbs. \$3.25, 25 lbs. \$6. (Not mailable.)

Magnesium Arsenate. For the Mexican bean beetle. Harmless to foliage. Apply as a wet spray, using 6 teaspoonfuls to a gallon of water; 2 pounds to 100 gallons water. 2-lb. bag 80 cts., 4 lbs. \$1.50, 8 lbs. \$2.75. (Not mailable.)

Mag-o-Tite. Insures a good crop of radishes, kale, cabbage, onions, turnips, cauliflower, etc. You can now sow any of these crops and be certain of protection against the destructive root maggot, earthworm and other pests. 2-lb. pkg. 35 cts., 4-lb. pkg. 60 cts., 8-lb. pkg. \$1. (Not mailable.)

Mo Lo. Clears a lawn of moles and field-mice in a few nights. Punch a hole in the top of the run, drop in one pellet and cover lightly; repeat every 8 feet. Mo Lo is poisonous—wear gloves. Pkg. 25 cts., lb. (1,250 tablets) \$18. (Not mailable.)

Mouse Cereal. Natural mouse-food. Little seeds impregnated with a deadly poison which, however, is not attractive to dogs and cats. A quick, tidy way to get rid of mice. 2½ ozs. 25 cts. (Not mailable.)

Napthalene Flakes. For thrip on gladiolus bulbs. Intermix at the rate of 1 ounce to 100 corms in a paper bag, box, or barrel. Gives complete control of all stages of the insect, including the eggs. Dust over bulbs at planting-time and cover with soil. Lb. 25 cts., 5 lbs. 75 cts., 25 lbs. \$3.50, 100 lbs. \$12.

Nico-Fume Liquid. This preparation is a free nicotine preparation, and is used by many of the leading growers. Lb. \$2.25, 4 lbs. \$5.75, 8 lbs. \$10, 40-lb. drum \$40. (Not mailable.)

Nico-Fume Paper. This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. Box of 24 sheets \$1.25, box of 144 sheets \$4.50. (Not mailable.)

Nico-Fume Tobacco Powder. For fumigating the greenhouse and conservatory. Lb. \$1, 5 lbs. \$3.35, 10 lbs. \$5.85. (Not mailable.)

NU-GREEN Very effective for preventing and controlling brown-patch in lawns. Kills the brown-patch fungi and has the added property of quickly restoring the diseased grass to its normal healthy condition. 3-oz. tin 50 cts., lb. \$1.75, 5 lbs. \$8, 25 lbs. \$30, 100-lb. drum \$115. (Not mailable.)

Para-Dichlorobenzene. Highly recommended for destroying the peach borers in trees four years and older. During September a ring of the crystals is placed on the soil around the trunk and covered by mounding the earth against the tree. One ounce is sufficient for each tree. Lb. 75 cts., 5 lbs. \$2.75, 10 lbs. \$5.

Paris Green. ¼ lb. 15 cts., ½ lb. 30 cts., lb. 55 cts., 5 lbs. \$2.50, 14 lbs. \$5. (Not mailable.)

Pomo-Green With Nicotine. The leaf-green, all-in-one dust or spray for external leaf-eating insects and many plant-diseases, also sucking insects such as aphis, etc. Recommended highly for the control of black-spot, mildew, and rust on roses, carnations, and snapdragons. Lb. 75 cts., 5 lbs. \$3, 25 lbs. \$12. **Without Nicotine** for external chewing insects, black-spot, mildew, and rust. Lb. 50 cts., 5 lbs. \$1.75, 25 lbs. \$8. (Not mailable.)

REMEDIES FOR INSECTS AND FUNGUS

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Purfeck Chickweed Eliminator. The modern, sure, and positive method of eliminating chickweed. When properly applied, kills only the chickweed and does not injure the grass. Mix with water and spray the solution over the turf. Do not spray in hot weather. Early spring or late fall will give best results. Qt. 75 cts., gal. \$2, 5 gals. \$9, 10 gals. \$17, 50 gals. \$60. (Not mailable.)

Pyrox. Kills all leaf-eating insects and prevents blight and all fungous troubles without injury, on trees, shrubs, and garden vegetables. Lb. 50 cts., 5 lbs. \$1.75, 10 lbs. \$3, 25 lbs. \$6.25, 50 lbs. \$7.25, 100 lbs. \$12.50, 300 lbs. \$30. **With Nicotine.** In addition to being recommended for all the above, it is also very effective against sucking insects such as aphids, etc. 10-oz. jar 50 cts., 40 ozs. \$1.25, 5 lbs. \$1.75, 10 lbs. \$3. (Not mailable.)

Rat Scat. Non-poisonous powder which you simply mix with the type of food rats ordinarily find on your premises. No danger to humans or animal pets, but sure death to rats. 2½ ozs. 65 cts., 5-oz. can \$1.

Reade's Electric Worm Eradicator. (Liquid.) One gallon is diluted with from 200 to 250 parts of water, and the turf thoroughly drenched with the diluted liquid. Four gallons of concentrated material is the average allowance per golf putting-green. Pt. \$1, gal. \$3.50, 5 gals. \$15, 10 gals. \$28, 15 gals. \$40.50, 25 gals. \$65, 50 gals. \$125. (Not mailable.)



Absolutely non-poisonous to children or pets but deadly to insects. Will positively not burn, blight, or stain the tenderest leaf or flower. It leaves no injurious residue on anything sprayed. Recommended highly for the Mexican bean beetle. A contact spray fatal to both chewing and sucking insects. One ounce makes 4 to 8 gallons of spray. Oz. 35 cts., 3½ ozs. \$1, ½ pt. \$1.75, pt. \$3.25, qt. \$6, gal. \$20.

Rotene. A concentrated, non-poisonous, rotenone-pyrethrum spray with penetrant. Harmless to all fruits, vegetables, and flowers, as well as humans and animals. Very effective against all chewing and sucking insects. Does not require the addition of soap as it carries its own spreader. Oz. 35 cts., ¼ pt. 75 cts., pt. \$2, qt. \$3.50, gal. \$10.

Scalecide. Used for the destruction of the San José scale. Dilute at the rate of one gallon to twenty gallons of water. Scalecide does not clog nozzles, hose, or pump, and is pleasant to use. Trees may be sprayed in winter and early spring before they start to come to bud. Qt. 60 cts., gal. \$1.40, 5 gals. \$4.90, 10 gals. \$8.50, 15 gals. \$12, 30-gal. bbl. \$19, 50-gal. bbl. \$26.50.

SEMESAN A mercuric disinfectant. A remedy for the malignant grass disease called "brown patch." Also used in the treatment of seeds, bulbs, and plants. Preserves seeds against rotting in soil and generally speeds and increases germination, thereby developing sturdier plants. Promotes early maturity and improves quality and quantity of blooms. Can be used in either liquid or powder form. 2 ozs. 50 cts., lb. \$2.50, 5 lbs. \$11.75, 25 lbs. \$46.25, 100 lbs. \$180. (Not mailable.)

"Seneked" A compound of lead arsenate for grub-proofing lawns and gardens. Will destroy Japanese beetles, wireworms, cutworms, maggots, and earthworms. Discourages crab grass and other weeds in lawn. This preparation also contains colloidal phosphate, the properties of which tend to hold lead arsenate in the soil and delay its loss through leaching, and, in addition, feeds the growing plants. Broadcast at the rate of 25 pounds to 1,000 square feet on lawns and twice this quantity in the garden. Lb. 35 cts., 5 lbs. \$1.50, 25 lbs. \$3, 100 lbs. \$8, 500 lbs. \$35, ton \$125. (Not mailable.)

Slug-Shot. The standard remedy for currant worms, rose slugs, cabbage worms, and almost any soft-shelled insects that infest the garden. Lb. 25 cts., 5 lbs. 75 cts., 25 lbs. \$3.50, 125 lbs. \$16.50. (Not mailable.)



For Cutworms, Slugs Sowbugs and Grasshoppers

Snarol is a meal, ready for immediate use. Not injurious to plants or other vegetation when used according to directions and is not soluble in water. Rain, dew, sprinkling, or moisture applied in any manner does not weaken Snarol's efficiency. Snarol is an unusual combination of materials, carefully selected. It is made to kill the pests that ruin lawns and garden produce, flowers and shrubs, in the quickest, most convenient, surest, most effective way, without any damage from itself. Lb. 25 cts., 4 lbs. 60 cts., 15 lbs. \$2.25, 50 lbs. \$6. (Not mailable.)

Sofyne Liquid Soap. Recommended to be used with Black Leaf 40, Red Arrow, and Ever Green. Acts as a spreader and increases killing power of spray. Sofyne Soap immediately emulsifies when mixed with water. Will not clog sprayer. 5-oz. bottle 20 cts., qt. 50 cts., gal. \$1.50, 5 gals. \$6, 10 gals. \$10.

Styptic. To prevent bleeding of vines after pruning. Bottle \$2.

Sulphur. Used principally in greenhouses and outdoors for checking mildew. Lb. 25 cts., 5 lbs. \$1, 10 lbs. \$1.60, 100 lbs. \$12.

Sunoco Spray Oil. An oil-emulsion, pleasant to use. Used as a dormant spray to combat various scales on trees and shrubs, also very effective against red spider on evergreens. Dilute 1 part to 15 parts water. Gal. \$1.25, 5 gals. \$5, 15 gals. \$8.25, 30 gals. \$13.80, 50 gals. \$19.

Thrip Juice (Hammond's). Very effective against aphids, red spider, mealy bug, etc. Qt. \$1.25, gal. \$4.80. (Not mailable.)

Thripco. A fumigant insecticide for the control of gladiolus thrips. Kills both thrips and eggs. Thripco releases a gas very deadly to this pest and results in complete kill. Use as a dust at the rate of one pound to 1,000 corms. Lb. 35c., 5 lbs. \$1.50, 10 lbs. \$2.75, 25 lbs. \$6, 50 lbs. \$10, 100 lbs. \$15. (Not mailable.)

Tobacco Dust (Kilmdead). Best of the Tobacco Dusts for dusting or fumigating. Lb. 25 cts., 5 lbs. 75 cts., 25 lbs. \$2, 100 lbs. \$6. (Not mailable.)

Tobacco Stems. Used for fumigating and for placing under benches in greenhouses. Bale of about 100 lbs. \$4, 5 bales \$17.50, 20 bales \$50. (Not mailable.)

Tree Cavity Fill. A plastic material to which hard-pine sawdust is to be added for bulking action. Use 1 part Tree Cavity Fill to 2 parts sawdust, mixed to a plaster consistency with the addition of a little water. Clean wound thoroughly and prime with Tree Wound Paint before applying Tree Cavity Fill and again as a covering after filling. Better than cement and mortar. It has better adhesion and flexibility. Prevents air-pockets forming and thus prevents rotting. 5 lbs. \$2.50, 10 lbs. \$4.50, 35 lbs. \$12, 150 lbs. \$45.

Tree Tanglefoot. A paste preparation for painting around the trunks of trees, in the form of a band. Caterpillars and other crawling pests cannot get over it. Lb. 60 cts., 5-lb. can \$2.75, 10-lb. can \$5.25, 25 lbs. \$11.

Tree Wound Paint. Prevents decay. A residuum, penetrating, antiseptic paint that is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding. Qt. 75 cts., gal. \$2, 5 gals. \$7.50.

Vermol. For earthworms in lawns, turf courts, and putting-greens. Non-poisonous, harmless to birds and animal life. Sold in powder form. Apply at the rate of ½ lb. per sq. yd. and flood greens immediately. Best results are obtained on warm damp days. 5 lbs. 75 cts., 25 lbs. \$2.25, 100 lbs. \$6, 500 lbs. \$27.50, 1,000 lbs. \$50, ton \$95.

Volck. A spray for scale insects, mealy bugs, white flies, red spiders, rust mites, and similar insects. Qt. 90 cts., gal. \$2.50, 5 gals. \$10, 14 gals. \$22.50, 28 gals. \$35.

Wilson's O. K. Plant Spray. For roses, chrysanthemums, evergreens, and all plants affected with scale or insects, under glass or outside. Recommended for rose bugs. ½ pt. 40 cts., qt. \$1, gal. \$3, 5 gals. \$12, 10 gals. \$22, 25-gal. bbl. \$50, 50-gal. bbl. \$90. (Not mailable.)

X-L-ALL Liquid Insecticide. Destroys mealy bug, scale, thrip, red spider, green and black fly, caterpillars, blight and all insect pests in the garden; it is perfectly safe to use on tender plants. Leaves the foliage bright and clean and much improved in appearance. Qt. \$3, ½ gal. \$4.50, gal. \$8.50. (Not mailable.)

Weed Killers

"HERBICIDE"
THE WEED EXTERMINATOR



This weed killer may be applied by means of a sprinkling apparatus of any kind from the small sprinkling can to the large street-sprinkling wagon. It is harmless to stone, woodwork or shoes and is perfectly odorless. One thorough application will kill all weeds, as well as their roots. One gallon diluted 1 part to 40 parts of water is sufficient to cover 100 to 150 square yards of space. Qt. can 70 cts., gal. can \$2, 5-gal. can \$7.50, 10-gal. can \$12.50, 30-gal. drum \$30, 55-gal. bbl. \$44. (Not mailable.)

Atlacide (Non-Poisonous, Powder). Exterminates all undesirable vegetation, including poison ivy, Canada thistle, etc., without danger of poisoning humans or animals. Apply as a dust only. Lb. 50 cts., 3½ lbs. \$1.50, 15 lbs. \$3.50, 50 lbs. \$7, 100 lbs. \$13.50.

Climax Lawn Sand. A combination of carefully dried and finely ground chemicals. Destroys weeds in lawns. 3½-lb. can 65 cts., 7-lb. can \$1.25, 14-lb. can \$2, 28-lb. pkg. \$3.75, 56-lb. pkg. \$7.25.

FERTILIZERS, MANURES, SOIL INGREDIENTS

Fertilizers are delivered free within one hundred miles of New York by truck, mail, express or freight, at our option

There are two secrets of soil fertility: The soil must be **correct mechanically** and **right chemically**. Correct mechanically means that it should possess the proper framework—enough clay to form a 'body,' sufficient grit to allow moisture to seep downward during rainy weather and to encourage it to work upward during dry weather by capillary action, and some remains of dead plants or humus to act as a sponge to hold moisture ready for the plant-roots to absorb it. Right chemically means that the soil contains the proper plant-foods in a condition easy for the plant to feed upon and in sufficient quantity to afford uninterrupted growth. You can make almost any soil mechanically correct and chemically right by the proper use of some of the materials listed on this and the following page. Fertilizers listed below as "Sawco" brand are our own manufacture. In compounding them, we use appropriate ingredients of the best quality only. We use no inert substances by way of "filler" or "makeweight."

For Better Lawns and Gardens

SAWCO Emerald Grass Fertilizer

For lawns and golf putting-greens. A well-balanced organic chemical formula of the purest ingredients, designed to feed only the finer grasses and to keep them in a healthy condition. Several applications of Emerald Grass Fertilizer ensures a beautiful lawn and a most wonderful putting-green. When building a lawn, from 1 ton to 1½ tons per acre (minimum, 50 pounds per 1,000 square feet) should be harrowed or raked into the upper surface. Every spring and early autumn existing lawns may be given a dressing of 500 to 1,000 pounds per acre (25 pounds per 1,000 square feet); when applied as a top-dressing to turf, it is best to mix the Emerald Grass Fertilizer with four times its bulk of fine soil or sand before broadcasting. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$4.50, 500 lbs. \$20, 1,000 lbs. \$35, ton \$62.50.

SAWCO Rose Food

A plant-food of specially compounded ingredients beneficial and desirable for the proper growth of roses and the eradication and control of root-pests. For new plantings, use one trowelful of Sawco Rose Food thoroughly mixed with the soil. For established plantings, a liberal dusting in the early spring and late fall is recommended. Work into the soil with rake or hoe. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$4.50, 500 lbs. \$20, 1,000 lbs. \$35, ton \$62.50.

SAWCO Chrysanthemum Food

(An old English formula.) All organic; not immediately soluble. A plant-food for Chrysanthemums, Pelargoniums, Cinerarias, and many other greenhouse plants. Most valuable for the above plants when mixed with the soil before potting. Mix 5 pounds to a wheelbarrow load of soil. Follow with occasional light top-dressings and water. 5 lbs. \$1.50, 10 lbs. \$2.75, 25 lbs. \$4, 50 lbs. \$7.50, 100 lbs. \$13.50.

SAWCO Superior TREE FOOD

A highly concentrated, balanced fertilizer strongly recommended for fruit trees, shade trees, evergreens, and flowering shrubs. On evergreens and shrubs, broadcast lightly and rake well into the soil. Water immediately. For shade trees, punch holes in ground, about 12 inches deep and 1 inch in diameter, in circular formation, 18 inches apart, directly under the farthest branch, and fill holes with the fertilizer, covering with soil. Do not apply near the trunk. Lb. 35 cts., 5 lbs. \$1.25, 10 lbs. \$2, 25 lbs. \$3.75, 100 lbs. \$8.

SAWCO General Garden Fertilizer

For vegetables, flowers, and fruit. Recommended strongly as the best for all-round work in the garden. Use it at the rate of 1,000 pounds to the acre, or 3 ounces to the square yard when preparing land for planting in the spring. Good practice, too, is to spread General Garden Fertilizer between the rows of plants when they are growing and then to hoe it into the soil; use about 3 pounds per 100 running feet for this, repeating every month. When planting beans, cucumbers, etc., in hills, a handful worked into the soil under the hill will be a great help, and the same thing may be done when planting tomatoes, cabbages, peppers, peonies, etc. Before sowing seeds in rows a little General Garden Fertilizer may be placed in the drill and the soil stirred to mix it thoroughly. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$4.50, 500 lbs. \$20, 1,000 lbs. \$35, ton \$62.50.

SAWCO Dahlia Food

A fertilizer specially prepared for Dahlias. Rich in potash and also contains sufficient nitrogen and phosphoric acid properly blended to give only best results. Mix a handful with the soil thoroughly before setting tubers and later top-dress with liberal applications worked into the soil, especially as soon as buds are beginning to form. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$4.50, 500 lbs. \$20, 1,000 lbs. \$35, ton \$62.50.

SAWCONURE

An organic fertilizer containing peat-moss, cow-manure, and poultry manure, air-dried. Feeds plants and builds soil. Free from weed seed. For lawns, gardens, and golf putting-greens. Use 25 pounds or more per 1,000 square feet, one-half ton or more per acre, for existing grass, and from 50 pounds to 100 pounds per 1,000 square feet when preparing land for seed. For gardens, vegetables, and flowers, use 100 pounds per 1,000 square feet. Incorporate well with the soil. 100 lbs. \$4.50, 500 lbs. \$17.50, 1,000 lbs. \$30, ton \$50.

SAWCO Acidulous Fertilizer

A plant-food and soil-acidifier for rhododendrons, kalmias, azaleas, mountain laurel, blueberries, cranberries, and many other acid-loving plants. Acidulous Fertilizer has been compounded very carefully and the ingredients contained therein are absolutely essential in producing healthy and vigorous plants. Apply at the rate of ¼ pound per square yard, and rake well into the soil. For best results, apply at least three times during the season. 5 lbs. 75 cts., 10 lbs. \$1.25, 25 lbs. \$2, 50 lbs. \$3.75, 100 lbs. \$5.50, 500 lbs. \$23.50, 1,000 lbs. \$40, ton \$70.

Orders for one ton or more of assorted fertilizers at the ton rate, provided 500 pounds of a brand are ordered. For quantities in excess of one ton, write for our special prices

GENERAL LIST OF FERTILIZERS

Fertilizers are delivered free within one hundred miles of New York by truck, mail, express or freight, at our option

Adco. A culture of bacteria associated with the breaking down of organic materials. Add it to garden rubbish, leaves and grass clippings to hasten decay and quickly produce manure. 25 lbs. \$2.25, 150 lbs. \$10.50.

Aluminum Sulphate. Makes soil acid, and for this purpose is much used in the culture of rhododendrons and similar plants. Not a fertilizer. Follow immediately with an application of Sawco Acidulous Fertilizer. 5 lbs. 75 cts., 10 lbs. \$1.25, 25 lbs. \$2, 50 lbs. \$3.75, 100 lbs. \$6.

Ashes, Canada Hardwood. These furnish potash. One to two tons per acre may be harrowed into land in winter or early spring. May be broadcast between rows of corn, potatoes, beets, carrots, etc., 10 pounds per 100 feet. 100-lb. bag \$3.50, bbl. (about 200 lbs.) \$6, ton \$45.

Blood, Dried. Adds nitrogen and a small amount of phosphoric acid and lime; much used for greenhouse plants, carnations, roses, and the like. Acts quickly. 5 lbs. 75 cts., 10 lbs. \$1.25, 25 lbs. \$2, 50 lbs. \$3.75, 100 lbs. \$5.50, 500 lbs. \$23.50, ton \$70.

Bone, Vineyard. These large particles of bone, averaging from $\frac{1}{4}$ to $\frac{1}{2}$ inch, make an ideal fertilizer for grape-vines and fruit trees. Apply liberally, and thoroughly incorporate with the soil as deeply as possible. 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$6, 500 lbs. \$27.50, ton \$75.

Bone Fertilizer. Mixed fine and coarse. (For general use.) This grade is recommended for the garden and for lawns. It is quick to give results, yet the benefits are lasting. The standard food for roses; much used on hay and pasture fields. Use 1,500 pounds per acre or 5 ounces to the square yard, dug or raked into the soil; use one-half this rate when top-dressing grass. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.50, 50 lbs. \$2.75, 100 lbs. \$4, 500 lbs. \$17.50, ton \$50.

Capsulizers. Plant-food in capsule form. Immediately soluble and available. May be placed in the soil around plants in flower-pots and outdoors or dissolved in water for a liquid fertilizer. 25 capsules 25 cts., 100 capsules 75 cts., 1,000 capsules \$3.50.

Cattle Manure, Shredded. A soil-builder and ideal mulch that is especially recommended for crops in hot, sandy soils. Also ideal for mulching perennial beds, asparagus, and peonies. Being organic, it releases plant-food when needed, increases bacterial action, and adds humus to the soil. Thoroughly incorporate with the soil. About 400 pounds of the concentrated material may be considered as equal in value to one ton of fresh cow-manure. 100 lbs. \$5, 500 lbs. \$22.50, 1,000 lbs. \$35, ton \$65.

Charcoal. Sweetens and lightens sour and heavy soils; helps to dry out wet land. Frequently used for lawns on soils of this character. 50 lbs. \$2.50, 100 lbs. \$4.50, 500 lbs. \$20, ton \$65.

Clay's Fertilizer. Has a splendid reputation for flowers, vegetables, and fruit. Two to 4 ounces to the square yard, raked into the soil around the plants. 7 lbs. \$1.50, 14 lbs. \$2.25, 28 lbs. \$4, 56 lbs. \$7, 112 lbs. \$12.

Cottonseed Meal. Rich in nitrogen and potash; suitable for grain crops, but most largely used on lawns. Use $\frac{3}{4}$ to $1\frac{1}{2}$ tons per acre. 100 lbs. \$4.50, 500 lbs. \$20, 1,000 lbs. \$35, ton \$60.

Floraid (Urea). The most highly concentrated nitrogenous fertilizer in commerce, contains 46 per cent of available nitrogen, and leaves no harmful residue in the soil. A quick-acting stimulant for lawns, vegetables, fruits, and flowers. Lb. 25 cts., 5 lbs. 90 cts., 10 lbs. \$1.50, 25 lbs. \$2.75, 100 lbs. \$9, 500 lbs. \$42.50.

Gypsum or Land Plaster. Widely used as a dusting for the manure pile to fix and hold nitrogen. When applied to land it furnishes lime without giving the soil an alkaline reaction. From one to three tons per acre may be given. 100 lbs. \$2.50, 500 lbs. \$10, ton \$35.

Humus. Furnishes but little plant-food; highly valuable, however, as a soil ingredient, improving its texture and increasing its water-holding properties. May be used freely. 100 lbs. will cover 80 square feet 1 inch deep. Shipped in bags, 10 lbs. 75 cts., 50 lbs. \$1.50, bag (100 lbs.) \$2.50, 5 bags (500 lbs.) \$10, 20 bags (1 ton) \$30. In bulk in carload lots, minimum 20 tons, \$10 per ton, f.o.b. plant.

Lawn Sand, Climax. Imported. A concentrated fertilizer used for killing certain weeds in lawns, especially chickweed and mouse-ear. Applied thickly to weed patches, or generally over the grass at the rate of 6 ounces to the square yard. $3\frac{1}{2}$ -lb. can 65 cts., 7-lb. can \$1.25, 14-lb. can \$2, 28-lb. pkg. \$3.75, 56-lb. keg \$7.25.

Lime, Agricultural Hydrated. Corrects acid conditions of the soil, and at the same time is a plant-food. Binds loose soils and, curiously enough, opens heavy land. Quick acting. Use from 1 to 3 tons per acre; 6 to 18 ounces to the square yard. As a winter dressing to sweeten lawns, broadcast 1 ton to the acre or 6 ounces per square yard. 5 lbs. 35 cts., 10 lbs. 60 cts., 25 lbs. \$1.25, 50 lbs. \$2, 100 lbs. \$2.75, 500 lbs. \$9.50, 1,000 lbs. \$15, ton \$27.50.

Muriate of Potash. Excellent for potatoes, corn, grains, etc. Use from 350 to 750 pounds per acre. 5 lbs. \$1, 10 lbs. \$1.75, 25 lbs. \$2.50, 50 lbs. \$4.75, 100 lbs. \$7.

Nitrate of Soda. A plant stimulant. Adds nitrogen in a form which is immediately available to the plants. Forces a heavy, succulent growth in lettuce and similar leaf vegetables. Use it sparingly and with great care, not more than $1\frac{1}{2}$ ounces per square yard, or 500 pounds to the acre, raked or harrowed in. As a liquid fertilizer, one ounce may be dissolved in one gallon of water. Lb. 25 cts., 5 lbs. 75 cts., 10 lbs. \$1.25, 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$4.50, 500 lbs. \$17.50, ton \$60.

Nitrophoska. Is a complete fertilizer containing 15 per cent Nitrogen, 30 per cent Phosphoric Acid, and 15 per cent Potash, all available. Clean, odorless, and practically water-soluble. Lb. 25 cts., 5 lbs. 90 cts., 10 lbs. \$1.50, 25 lbs. \$2.75, 100 lbs. \$5.85, 500 lbs. \$28.

Pulverized Poultry Manure. An excellent fertilizer, rich in plant-food, for all garden crops. Dig in 3 to 16 ounces per square yard, or $\frac{1}{2}$ to $2\frac{1}{2}$ tons to the acre. 100 lbs. \$4.50, 500 lbs. \$20, ton \$60.

Salt, Agricultural. Occasionally used as a top-dressing for asparagus. Also effective as a weed-killer on roadways, paths, etc. 100 lbs. \$2.25, 500 lbs. \$10, ton \$35.

Scotch Soot. A valuable plant-food. On grass, or dusted around vegetables or on the plants themselves, it discourages caterpillars, slugs, grubs, wireworms, cutworms and earthworms. 5 lbs. 75 cts., 10 lbs. \$1.25, 25 lbs. \$2, 50 lbs. \$3.75, 112-lb. bag \$6, 5 bags \$25, ton \$70.

Sheep Manure. A pure, natural, nutritious, pulverized manure that is immediate and lasting in effect. In preparing a flower or vegetable bed, use it liberally and incorporate well with the soil. It is also very valuable as a liquid manure and can be used at all times with safety. Contains no weed seeds. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.50, 50 lbs. \$2.75, 100 lbs. \$4, 500 lbs. \$17.50, 1,000 lbs. \$30, ton \$50.

Stimugerm. Nitrogen-fixing bacteria for all leguminous plants. Small garden unit 25 cts.; postpaid 35 cts. Large seed units, $\frac{1}{2}$ bus. 35 cts., bus. 60 cts., 5 bus. \$2.25. Clover units, $\frac{1}{4}$ bus. 35 cts., $\frac{1}{2}$ bus. 60 cts., bus. \$1, $2\frac{1}{2}$ bus. \$2.25. When ordering, state crop for which Stimugerm is desired.

Sulphate of Ammonia. A nitrogenous plant-stimulant. Highly refined, pure, granulated, free from tar and other impurities. Very quick in action. Tends to make soil acid. Increases leaf-growth. Much used on lawns, which it not only feeds, but weeds are discouraged. When top-dressing lawns, apply one ounce per square yard or 350 pounds to the acre, but first mix with several times its bulk of sand or soil. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$5, 500 lbs. \$20, 1,000 lbs. \$32, ton \$60.

Sulphate of Potash. Highly recommended for all acid-loving plants such as rhododendrons, azaleas, kalmias. Sprinkle around plants and water in thoroughly. 5 lbs. \$1, 10 lbs. \$1.75, 25 lbs. \$2.50, 50 lbs. \$4.75, 100 lbs. \$7.

Super-Phosphate. Adds phosphoric acid and a small quantity of lime. From 750 to 1,500 pounds may be applied to an acre of plowed land. 100 lbs. \$2, ton \$24.50.

Tankage (Blood and Bone). Similar in general effect to bone-meal, yielding lime and phosphoric acid. Used largely by greenhouse men. Apply 3 ounces per square yard (1,000 pounds to the acre) and rake in. 100 lbs. \$5, 500 lbs. \$20, ton \$70.

Tobacco Fertilizer. For lawns, vegetables, and farm crops. In addition to its value as a fertilizer, it discourages many soil-pests, such as beetles, ants, cutworms and snails. A slow-acting fertilizer, rich in potash. Use from $2\frac{1}{2}$ to $3\frac{1}{2}$ tons per acre, 1 to $1\frac{1}{2}$ lbs. to the square yard. 50 lbs. \$2.50, 100 lbs. \$5, 500 lbs. \$22.50, ton \$65.

Tobacco Stems. Placed around the roots of roses and other plants; occasionally recommended as a dressing for grass over winter. Feeds the plants, protects against cold, retains moisture, deters insects. Use from $2\frac{1}{2}$ to $3\frac{1}{2}$ tons per acre; 1 to $1\frac{1}{2}$ pounds to the square yard. Bale (about 100 lbs.) \$4, 5 bales \$17.50, 20 bales \$50.

Leaf-Mold, Moss and Peat

Leaf-Mold. Used for preparing rhododendron beds and as an ingredient in potting soil. Box (100 lbs.) \$3.50, ton (in bags) \$50.

Moss, Sheet, Natural Green. For covering pots or tubs, for decorating the conservatory, rock-garden, etc. Bag (10 lbs.) \$5.

Moss, Dry Sphagnum. For wrapping around plant roots, orchid-growing, covering conservatory soil, etc. Large bale \$4.

Peat, Osmundi. For orchid-growing. Bbl. \$5.

Potting Soil. A fine mixture of loam, leaf-mold, and sand. Suitable for house plants, ferns, etc.; excellent for growing bulbs. Pk. \$1, bus. \$2.50.

Peat Fiber. A vegetable product which remains in the soil for many years without decaying; in the meanwhile it absorbs moisture and holds it for the plants. Its presence in the top layer of a lawn adds materially to the resilient carpet-like feel of good turf. As a mulch around the roots of plants it is excellent. May be used freely. Large bale, 12 cubic feet (22 bus.), \$4; in lots of 5 bales, \$3.50 per bale; in lots of 10 bales, \$3 per bale. (Write for prices on carload lots.) Small sample bale (3 bus.) \$1.25.

Orders for one ton or more of assorted fertilizers at the ton rate, provided 500 pounds of a brand are ordered. For quantities in excess of one ton, write for our special prices

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SPECIAL ORDER SHEET for Colored Illustrations—Spring Catalogue, 1933

We, Stumpp & Walter Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop.

STUMPP & WALTER CO.

132-138 Church St. (at Warren), New York

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SPECIAL COLLECTION OFFERINGS—Flower Seed, Iris, Gladiolus, and Dahlias

We have enumerated below numerous varieties of Flower Seed, Iris, Gladiolus, and Dahlias which we have illustrated in color in our catalogue this year. Our idea in doing this on a separate order sheet is to make it easier for you to order them.

Quantity	ANNUAL FLOWER SEED	Price	Quantity	ANNUAL FLOWER SEED	Price
.....	NEW RACE, DWARF BEDDING DAHLIAS See page 21.	.....	.....	GIANT CARNATIONS, continued	.....
.....	PRICES: Pkt. 35c., 1/8oz. \$1, 1/4oz. \$1.50, oz. \$5.	.....	.....	Yellow King.....	.....
.....	MARIGOLD, GUINEA GOLD	.....	.....	Red King.....	.....
.....	See page 22.	.....	.....	PRICES: Pkt. 15 cts., 1/8oz. \$1, 1/4oz. \$1.50.	.....
.....	PRICES: Pkt. 25 cts., 1/8oz. 60 cts., 1/4oz. \$1.	.....	.....	COLLECTION OFFER: 1 pkt. each of the above 6 Kings, 75 cts.	.....
.....	DWARF DOUBLE NASTURTIUM, GOLDEN GLEAM	.....	.....	BALCONY PETUNIAS	.....
.....	See page 22.	.....	.....	(5 Distinct Colors.) See page 41.	.....
.....	PRICES: Pkt. 15 cts., oz. 75 cts., 1/4lb. \$2.50.	.....	.....	White.....	.....
.....	MIDSEASON GIANT ASTERS	.....	.....	Rose.....	.....
.....	See page 31.	.....	.....	Crimson.....	.....
.....	Light Blue Giant.....	.....	.....	Blue.....	.....
.....	Peach-Blossom Giant.....	.....	.....	Purple.....	.....
.....	White Giant.....	.....	.....	PRICES: Pkt. 20 cts., 1/8oz. 75 cts., 1/4oz. \$1.25, 1/4oz. \$2.	.....
.....	Rich Rose Giant.....	.....	.....	COLLECTION OFFER: 1 pkt. each 5 striking colors, 75 cts.	.....
.....	Light Purple Giant.....	.....	.....	SCABIOSA See page 42.	.....
.....	Dark Purple Giant.....	.....	.....	Azure Fairy.....	.....
.....	PRICES: Pkt. 15 cts., 1/4oz. \$1.	.....	.....	Shell-Pink.....	.....
.....	COLLECTION OFFER: 1 pkt. each of the above 6 Midseason Giants, 75 cts.	.....	.....	Crimson.....	.....
.....	GIANT KING CARNATIONS	.....	.....	White.....	.....
.....	(Sweet-scented.) See page 32.	.....	.....	Rose.....	.....
.....	Maroon King.....	.....	.....	King of the Blacks.....	.....
.....	Rose King.....	.....	.....	PRICES: Pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50.	.....
.....	Pink King.....	.....	.....	COLLECTION OFFER: 1 pkt. each 6 varieties, 50 cts.	.....
.....	White King.....	.....	.....		.....

Quantity	SEED AND BULBS	Price	Quantity	FERTILIZER	Price
	GIANT-FLOWERING VERBENAS (4 Distinct Colors.) See page 51.			GLADIOLUS ARISTOCRATS See page 132.	
	White King.....			Doz. 100	
	Salmon-Pink.....			Coryphee \$5 00 35 00	
	Royale.....			Heavenly Blue .. 3 00 20 00	
	Etna.....			Mrs. Van Konynen- burg 1 50 10 00	
	PRICES: Pkt. 20 cts., 1/8 oz. 60 cts.			Paul Pfitzer..... 75 5 00	
	COLLECTION OFFER: 1 pkt. each 4 fine varieties, 50 cts.			Pfitzer's Triumph 2 00 15 00	
	DAHLIA-FLOWERED ZINNIAS (6 Distinct Colors.) See page 52.			STAIGREEN LAWN SEED	
	Buttercup.....			Best on Earth	
	Scarlet Flame.....			Lb. 60 cts.	
	Exquisite.....			2½ lbs. \$1.40	
	Oriole.....			5 lbs. \$2.75.....	
	Dream.....			12½ lbs. \$6.25.....	
	Crimson Monarch.....			25 lbs. \$12.....	
	PRICES: Pkt. 15 cts., 1/4 oz. 60 cts., oz. \$2.			100 lbs. \$45	
	COLLECTION OFFER: 1 pkt. each 6 fine varieties, 75 cts.			FERTILIZERS	
	THREE FINE LILIES See page 121. Each Doz. 100			FOR THE GARDEN AND LAWN	
	Regale. 6-7 in.			Our Own Manufacture	
	circum \$0 20 \$2 00 \$15 00			Sawco General Garden Fertilizer	
	Speciosum			For Flowers and Vegetables	
	magnificum.			5 lbs. 50 cts.....	
	9-11 in. cir-			10 lbs. 90 cts.....	
	cum. 30 3 00 20 00			25 lbs. \$1.75.....	
	Auratum. 9-11			50 lbs. \$3.25.....	
	in. circum.. 30 3 00 20 00			100 lbs. \$4.50	
	NEW JAPANESE IRIS (Giant Iris Kaempferi.) See page 122.			500 lbs. \$20.....	
	Violet Giant.....			Sawco Emerald Grass Fertilizer	
	Blue Giant.....			For Fine Turf	
	White Giant.....			5 lbs. 50 cts.	
	Mahogany Giant.....			10 lbs. 90 cts.	
	ROOTS: \$1.50 each, \$15 per doz.			25 lbs. \$1.75	
	COLLECTION OFFER: 1 each of 4 va- rieties, \$5.			50 lbs. \$3.25.....	
	THREE FINE DAHLIAS See page 131			100 lbs. \$4.50.....	
	Each Doz.			500 lbs. \$20.....	
	Jersey's Triumph ... \$1 00 \$10 00			Sawco Superior Tree Food	
	Sunrise Trail 1 50 15 00			For Shade Trees, Evergreens and	
	Warren-Church..... 2 00 20 00			Shrubs	
	COLLECTION OFFER: 1 root each of 3 varieties, \$3.			Lb. 35 cts.	
				5 lbs. \$1.25	
				10 lbs. \$2.	
				25 lbs. \$3.75.....	

We deliver free all Flower Seeds, Grass Seeds, and Bulbs to any point in the United States.
We deliver Fertilizers to points within 100 miles of New York City; purchaser pays transportation beyond.

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We, Stumpp & Walter Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop.

Date_____1933

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Superintendent or Gardener _____
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SPECIAL ORDER SHEET Iris, Roses, and other Plants listed on pages 122 to 124, 126 and 127, and 138 to 150 incl.—Spring Catalogue, 1933

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STUMPP & WALTER CO.
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That we may enter for Catalogues

SPECIAL ORDER SHEET

IRIS, PEONIES, PHLOX, TRITOMA, SHRUBS, CLIMBING PLANTS, ROSES, EVERGREENS, CURRANTS, GOOSEBERRIES, RASPBERRIES, GRAPE-VINES

As the season for shipping to you the items listed below is frequently different from the time to ship seeds and bulbs, we ask our patrons to use this order sheet. We will be able to give you better service on your order if you do.

Quantity		Price	Quantity		Price
	JAPANESE IRIS. (See page 122.)			German Iris, continued	
	Four New Varieties				
.....	Violet Giant.....	.....	.....	Bruno.....	.....
.....	Blue Giant.....	.....	.....	Dominion.....	.....
.....	White Giant.....	.....	.....	Dream.....	.....
.....	Mahogany Giant.....	.....	.....	Fairy.....	.....
.....	COLLECTION: One each of above, \$5.	.....	.....	Frieda Mohr.....	.....
	Standard Varieties			Goblin Red.....	.....
.....	Azure.....	.....	.....	Gold Imperial.....	.....
.....	Choseidan.....	.....	.....	Grevin.....	.....
.....	Gold Bound.....	.....	.....	Jacqueline Guillot.....	.....
.....	Grace Sperling.....	.....	.....	Khedive.....	.....
.....	Kamata.....	.....	.....	Lent A. Williamson.....	.....
.....	La Favorite.....	.....	.....	Lohengrin.....	.....
.....	Lavender Queen.....	.....	.....	Lord of June.....	.....
.....	Mahogany.....	.....	.....	Magnifica.....	.....
.....	Mrs. George Stumpp.....	.....	.....	Moliere.....	.....
.....	Painted Lady.....	.....	.....	Morning Splendour.....	.....
.....	Pyramid.....	.....	.....	Mother of Pearl.....	.....
.....	Red Riding Hood.....	.....	.....	Opera.....	.....
.....	Rose-Anna.....	.....	.....	Pallida, Albert Victor.....	.....
.....	Templeton.....	.....	.....	Perfection.....	.....
.....	Violet Beauty.....	.....	.....	Princess Beatrice.....	.....
	GERMAN IRIS. (See pages 123, 124.)			Princess Victoria Louise.....	.....
.....	Afterglow.....	.....	.....	Prosper Laugier.....	.....
.....	Alcazar.....	.....	.....	Quaker Lady.....	.....
.....	Ambassadeur.....	.....	.....	Queen Alexandra.....	.....
.....	Asia.....	.....	.....	Queen Caterina.....	.....
.....	Ballerine.....	.....	.....

Quantity		Price	Quantity		Price
	German Iris, continued			HARDY PHLOX. (See page 127.)	
.....	Raffet.....	.....	.....	Bridesmaid.....	.....
.....	Rhein Nixe.....	.....	.....	B. Comte.....	.....
.....	Seminole.....	.....	.....	Commander.....	.....
.....	Shekinah.....	.....	.....	Elizabeth Campbell.....	.....
.....	Sherwin Wright.....	.....	.....	Enchantress.....	.....
.....	Souv. de Mme. Gaudichau.....	.....	.....	General van Heutz.....	.....
.....	Susan Bliss.....	.....	.....	Mrs. Milly van Hoboken.....	.....
.....	White Knight.....	.....	.....	Obergartner Reichenau.....	.....
	SIBERIAN IRIS. (See page 124.)			Rynstroom.....	.....
.....	Emperor.....	.....	.....	Sunset.....	.....
.....	Perry's Blue.....	.....	.....	Sunshine.....	.....
	IRIS PUMILA. (See page 124.)			Terre Neuve.....	.....
.....	Excelsa.....	.....	.....	Wanadis.....	.....
.....	Sambo.....	.....	.....	Wida.....	.....
.....	Schneekuppe.....	.....	.....	Miss Lingard.....	.....
	CRESTED IRIS. (See page 124.)			TRITOMA. (See page 127.)	
.....	Iris cristata.....	.....	.....	Autumn Tints.....	.....
	HERBACEOUS PEONIES (See page 126.)			Flaming Torch.....	.....
.....	White Shades	.....	.....	Golden Thoughts.....	.....
.....	Alsace-Lorraine.....	.....	.....	Orange Glow.....	.....
.....	Festiva Maxima.....	.....	.....	Orange Qucen.....	.....
.....	La Lorraine.....	.....	.....	Sulphur Spire.....	.....
.....	Princess Olga.....	.....	.....	Pfitzeri.....	.....
.....	Solange.....	.....	.....	S. & W. Co.'s Hybrids.....	.....
	Pink Shades			FLOWERING SHRUBS (See pages 138, 139.)	
.....	Alice Balfour.....	.....	.....	ABELIA Grandiflora.....	.....
.....	E. G. Hill.....	.....	.....	ALMOND, Pink.....	.....
.....	General Joffre.....	.....	.....	White.....	.....
.....	Henry Woodward.....	.....	.....	ALTHEA, Red.....	.....
.....	La France.....	.....	.....	Pink.....	.....
.....	Lady Bramwell.....	.....	.....	White.....	.....
.....	Mignon.....	.....	.....	Purple.....	.....
.....	Mme. Benoit Riviere.....	.....	.....	BARBERRY	.....
.....	Mme. Emile Dupraz.....	.....	.....	New Red-leaved Japanese.....	.....
.....	Mme. Francois Toscanelli.....	.....	.....	BUDDLEIA (<i>Butterfly Shrub</i>)	.....
.....	Mme. Manchet.....	.....	.....	Variabilis Veitchiana.....	.....
.....	Mons. Jules Elie.....	.....	.....	DEUTZIA	.....
.....	Pasteur.....	.....	.....	Gracilis.....	.....
.....	Rachel.....	.....	.....	Pride of Rochester.....	.....
.....	Sir John French.....	.....	.....	DOGWOOD (Cornus)	.....
.....	Suzanne Dessert.....	.....	.....	Florida.....	.....
	Red Shades			Florida rubra.....	.....
.....	Dr. H. Barnsby.....	.....	.....	Sibirica.....	.....
.....	Felix Crousse.....	.....	.....	FORSYTHIA Suspensa.....	.....
.....	Francois Rousseau.....	.....	.....	Viridissima.....	.....
.....	Gloire de Torraine.....	.....	.....	HONEYSUCKLE (Bush), Tatarica	.....
.....	Marquis C. Lagergren.....	.....	.....	Tatarica alba.....	.....
.....	Rudyard Kipling.....	.....	.....	HYDRANGEA	.....
.....	War.....	.....	.....	Arborescens grandiflora.....	.....
	Yellow Shade			Paniculata grandiflora.....	.....
.....	Primevere.....	.....	.....	KERRIA (Corchorus)	.....
	Single Peonies			Japonica flore-plena.....	.....
.....	L'Etincelante.....	.....	.....	KOLKWITZIA Amabilis.....	.....
.....	Nymphe.....	.....	.....
.....	Othello.....	.....	.....
.....	Yeso.....	.....	.....

BOOKS on Horticulture, Agriculture and Kindred Subjects

BOOKS MAILED FREE OF CHARGE AT PRICES GIVEN

This list embraces only a select portion of the most popular horticultural and agricultural books published. Any book not included in this list we will be glad to supply at the list price. We invite correspondence concerning these or any other books in which you may be interested.

- All About Flowering Bulbs.** By T. A. Weston. Written especially for the amateur, this book gives all the information the home-gardener requires on the culture and flowering of bulbs of all seasons planted outdoors, as well as those that do well in the house. \$2 00
- Annals, The Book of.** By Alfred C. Hottes. A reliable guide through the season of annual bloom. Complete instructions for their culture and uses. 182 pages. 1 50
- Around the Year in the Garden.** By F. F. Rockwell. Written by a practical amateur grower for the busy man or woman who must use every hour in the garden to the best advantage. 350 pages. 2 50
- Bulbs, Book of.** By F. F. Rockwell. A complete treatise on growing of bulbs, for both fall and spring planting. 2 00
- Cactus Culture.** By E. D. Schulz. A practical discussion on growing and caring for desert plants. Also deals with artistic selection and arrangement. 186 pages. 2 00
- Chrysanthemum and its Culture, The.** By E. A. White. Contains plain, practical directions for the successful culture of Chrysanthemums. 200 pages. 2 00
- Climbing Plants, A Little Book of.** By A. C. Hottes. The only book obtainable combining all climbing plants, of whatsoever nature, in the one volume. 250 pages. 1 75
- Dahlia Culture, Modern.** By W. H. Waite. Brief, clear, complete, based on the actual operations and results of a practical, experienced grower, propagator and exhibitor. 132 pages; 6 full color plates. 1 50
- Dish Gardening, Adventures in.** By Patten Beard. 69 full-page illustrations with explanations and text showing how to make miniature dish-gardens with growing plants, stones, figures, etc., in colorful pottery bowls. 2 50
- Evergreens for the Small Place.** By F. F. Rockwell. Practical suggestions for using conifers. Illustrated. 1 00
- Evergreens, Hardy.** By Frank A. Schreper, M. S. A practical handbook on the planting and management of all hardy evergreens, exclusive of the broad-leaved species. 128 pages. 1 25
- Fertilizers and Crop Production.** By L. L. Van Slyke. Their source, make-up, effects, and use. Very complete. 520 pages. 4 00
- Floriculture, Commercial.** By Fritz Bahr. A practical manual for the trade grower. 5 50
- Garden Guide—The Amateur Gardener's Handbook.** In a class by itself. No other gardening authority approaches it in its completeness. 384 pages. Paper, \$1; Cloth. 1 50
- Garden, The Complete.** By Albert Taylor, M. S. A. An up-to-date book on landscape gardening. Profusely illustrated. 6 00
- Gardening, Manual of.** By L. H. Bailey. He who would make a garden could not find a better manual. 3 00
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- Gladiolus.** By A. C. Beal, Ph.D. A practical treatise on the propagation and successful culture of gladiolus in home, garden, and under glass. 128 pages. 1 25
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- Horticulture, Standard Cyclopaedia of.** By L. H. Bailey. Makes a compact but thorough presentation of the kinds, characteristics and methods of cultivation of the plants grown in the United States and Canada, for ornament, for fancy, for fruit, and for vegetables. 3,637 pages, 3 volumes. 25 00
- House Plants, Milady's.** By F. E. Palmer. For those seeking success with plants in the home. 1 25
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- Landscape Gardening, Practical.** By R. B. Cridland. Shows in a simple way how to beautify the home-grounds. 276 pages. \$2 50
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- Roses, How to Grow.** By Pyle, McFarland, and Stevens. Makes every step in the culture and care of roses so clear that any grower can understand it and succeed with them. 144 pages of text and 64 full pages of illustrations, 32 of which are in natural colors. 2 00
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